	CCTTTTTTAG TGTAATAAAT GGTTACATTA TCCGTTGCAA GTTGTGTTAA ATCTCGGTCT	132
	CCCGTAATAA TAATTGTCTG AAAGCCCGCT TTATCTGCTT CTTTACTTAA AGTTCCGATA	138
5	ATATCATCTG CCTCATAGTT ATCTAATTCA TAACGTTTAA TATGATAAGC ATCTAATAAT	144
	TGGCGAATAT AAGGAAATTG CTCACTTAGT TCAGGCGGCG TTTTCTGGCG TCCACCTTTA	150
	TATTCACTAT ATTTTCATG TCTGAAAGTC GTTTTACCTG CATCAAACGC TACTAAAAAA	156
10	TGATTTGGCT TTTCTTCTTT TAAAATCTTC TCTAGTAACA TTGCAAAACC ATATACTGCA	162
	TTGGTATGAA TGCCTGCTTT GTTTGATAAC AAAGGTAATG CATAAAAAGC TCTAAAACTT	1680
15	AAGCTATTAC CATCGATTAA TACTAATTTA TTCACAATTT TAACCTCCAG AACTAATTTA	1740
	TATATnTGTG	1750
	(2) INFORMATION FOR SEQ ID NO: 729:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 729:	
	AAATTAATTT TAACATCCTT TCAAAATAGT TTTAACGGAT CCTCCCAAAA CGTAAACTCA	60
30	CATCAGTTAC TTGTAACATG CATTTTCTCC TTTTTTTCAT TCGATATTCT AACGGAAGAA	120
	TTATATCATA TTATCGTCAC AGTTTCGACC TCATATAAGT TGTAATGATA GAATGACTCA	180
35	CACATGTTAT AATAATAAAG AATACAAGAA TCGAAGGAGA ATAAACATGG CATTAGACAA	240
55	AGATATAGTA GGGTCTATAG AATTCCTTGA AGTAGTAGGG TTACCAAGGT CAACTTACCT	300
	TTTAAAGGAC CAACGGTGAA ACGTAAAGTT AAACCAATCA GAATGAACGT GATGATTGAA	360
40	TTAGAAGTAG GGGAGNATAT AGTTCCTCAT TTATCCAACC GGTCAGGTGG ATTATTGCAC	420
	TCAAATATGC ngnTATACG	439
	(2) INFORMATION FOR SEQ ID NO: 730:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 481 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 730:	

	AGTTTAGGAT TGATGACAAA GCCATTACGA CCAACAAATC CTAAACCTGC ACGTTCTGCT	120
	ACTGCCCTAT CTGATAATAC ACCCGTATCT ACCATAGATT TGATTTCAAC ATCTGGAACT	180
5	TTAGATTCAA TAAATGCAGC TAACATGTCT AATCGTTTAC GCATAATTGT ATGATAATCT	240
	TGACCCCACG ATGCTCTAGC AAATAAGCCT CTGCGATCAC CTCTAACACT CTTAGGTGCA	300
10	CCTTTCAGTT TGTTAGGATA ACCAACTGCA ATTGCTATGA TTGACCTTGC TGTTGGTAAG	360
	GATAATTTAG GCTCCGTTCG TAAAGCAATA TCAGATTCTT CAAaTCCTGA GGCATAACCA	420
	TTTGCATGAT ATGCTTCTAG CTTTTGCTTC AATTCATCAA AGGGnTCGGC AGTAGTAAAT	480
15	c	481
	(2) INFORMATION FOR SEQ ID NO: 731:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 828 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 731:	
	GTGATGAAAA ATCTTTTCT ATTGATTGAG AAAATAGTTA TTTATATAGT TTTTAAAGAA	60
30	AAAAAGTGAT AATATTTAGC TAATCTAATG AAAATTGATT TATTGGACAA AAAATACATT	120
••	TTAAATGAGT AGAGGAGGCT GCAAWTGGGT TACAGAACTT TAAAAAGTAT TTTTCATGAA	180
	CACAATGAAA GTAAAATGAA GGAAGAGTAT ATTAAAAGAT TTAATTCTTT mGCTTCTTTC	240
35	AATACTAATA TTAATATCAT ACCTATGGAA AATGGAAAAA AAGTTAATGA TTTGGAATAT	300
	CCTCTATTCT TTATGGTGAC TAAAAATCTA TCAAAAAAAC AAGAATTAAT ATCAATTAAT	360
	AGTAGAAAAA TTGATAGAGC ACTTAATTCT TTACCATATG CAGCTAGAGA ACAATATTTT	420
40	AATGATTTAT TAATCGATGA ATTACAAAGT ACTAATGAAA TTGAAAATGT ATTTAGTACT	480
	AAACAAGAGA TTGCACATGC GTTAAATAAC CAAGCATCAG AATTTCTTAA GTTCAGAGGC	540
	CTCGTGGATC AATATAAAGA GATAGAACTT AATAAAAAAA TTAAAGTTGA TAATGTAAGA	600
45	GACATTAGAG CGATTTATGA TAAATTAGTT TCAAATGAAA TTAACGAACA AGATAAGTTA	660
	GATGGAGAGC TATTTCGTAA AAATTTTGTC GGTGTGCATG ATGGGTCAAC GAATAAATAT	720
50	ATACATGTTG GGTTACAACC TGAAACCAAA ATTGTTGAAT TTATAGGTGA AATGCTAACA	780
50	TTTTTAAAAT ATTTTGATGC GCCTCAGCCG TTCAAAATCA TGGCTAGT	828
	(2) INFORMATION FOR SEQ ID NO: 732:	

...

(A) LENGTH: 1622 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 732:

10	CGTATGTTTC	GAATTTTATG	nATTGCATTG	GATAATAGTA	CCAGTTAAAA	GAACTAAGAT	60
	TGTAATTATC	CCCCCTTAAA	ATTCAAGAAT	ATATTTTCTT	AATCTATCAG	CAAGAGGTTA	120
	TATTTCAAAG	TGTTTATTTT	TAAAACAACA	TCTAAAAGCC	ATTTCATAAt	AAwGTTAAAT	180
15	Cattagaatg	TATAAAGATT	CCaATTAATA	AAAATAGATA	AAATGCAATA	AAGTTCCAAA	240
	TACTTATTAT	TATTCATCAC	AAATTACGTG	ATGCCCTCTA	CAACACTAAA	TCAAGGATGA	300
••	TATTTATTTT	ATATACATTA	GCATTCATTG	TTTGCTTACC	CACATTATCC	TGTTTAGTCT	360
20	TTTTTATAAC	TCTAGTCTTG	AATGTCATAT	TTACAAAGAA	AAAAACACTA	AAATATTTAA	420
	AACTAACACT	ATTTATTCAC	TTTGTTCTTT	TATAGCACCT	TTTATGTTTA	TTTTCTTGTA	480
25	TTCAATAAAT	AGTATGGAGA	TGATAATTTA	AAGTAGATAT	ATTTGAAGTA	TACTATAGAG	540
	TAAATTATAT	TGGGGAAATA	TGTAAACGAA	CCGGTTGATT	TTATAGTGGA	TTAACACTTC	600
	ATAGAGAATA	TAATCAAGAA	CAAAAACAGT	CAATAGGTGT	GAATTTTTT	AAAGACGGAT	660
30	CTGTTGCTAC	TAAAAAAAGA	AGTATACAAT	TCAATAGTTA	AACCTTAAAA	CAAGAAATAT	720
	TATTCAAAAT	CAATGAATTT	CCTATCTTAT	TAGTTTTAAC	AATATTTATT	CTCATAGAGT	780
	TTGTCCAATT	AAATATAGAT	GATTCAAATA	TTTATAAGCA	TACAAAAGAG	CAGTAAGACA	840
35	TTTTCTAATA	GAAAATAACT	TTACTGCTCT	TTGTACATTA	CTCATCAACT	ATTGTAAATT	900
	AAATAATAAA	TAACTACCTA	TTTTATTATT	CAGCTAAAAA	ATGCTCTGCT	AAATATTTTG	960
	CTGCGCCATC	CTCTTCATTC	GTGTATGCCG	TTACATCTGA	AGTTAATGCT	TGGATTTCAG	1020
40	GGCGTGCATT	TTTCATAGCA	ACTGTATAAT	GACCAAATTC	AAACATTGCT	CTATCATTGT	1080
	CGCTATCTCC	AATAACTAAC	GTTTCTTCTT	GATGAATACC	AAAATGTGCA	ATCATTTCTT	1140
45	TAATGCCTGT	ACCTTTATCA	GTTTGATAAG	CCATTGTTTC	CGCATTAAAT	CTTGATGAAT	1200
	TTGArACACT	AATCTGTAGT	TGCACATGAT	TTTGCTTTAA	TTCATCTCTA	AATGCTGTTA	1260
	TTTTTTCTAA	ATTAGAACTG	AATAGATAAA	TTTTTGAATA	TTCACCTTCA	GGAAACTTAG	1320
50	TTACCCAATC	TATCTTACCA	GCAAGCGCAT	CTTGTCTTGA	AGACCATTCA	CTATGACTTA	1380
	CGCCATTAAT	AGGATCTTGA	CTACGAATCA	TATCTCGCAT	CCATGTTTCA	TCTTCTTTTA	1440
	AAGAAACTCT	ATTACCTTCA	AAAGGAAATA	CCTCATAATA	AATTTGTTGG	CGCTTAGCTA	1500

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	CTACTTCTCC AATTGTTCCA TTTGAACTAA TGATGCCATT AACCGCAAAA TCTTGAGGTA	1620
	CA	1622
5	(2) INFORMATION FOR SEQ ID NO: 733:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 472 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) OSEQUENCE DESCRIPTION: SEQ ID NO: 733:	
70	AATGCCANAT AAATCCAAAT TCTTTTAACG AACAAGAGTG CCCAAGTTAT TGCTGATCGT	60
	TATGCCAGAT ANGCATATCA ATGATAATTA TGGTTTAGAA AGAATTTCTA AGACAAATCA	120
20	TGGATATAAT TATGTGTATT CCAATGATAA TTCAACTAGT AAGCAACATG TAAGTATTTC	180
	AAATCAAGGC ATAATAACGA AATAATAGAT GGAACAGTGT ATTCTAATTG GATATACTGT	240
	TTTTATTTTG CAATAATTTA ATTTAAAAAG GTGAATTCAA CTTATAAAAT GATGTAAATG	300
25	TTATGTCAAA ATCAACCAAT CCGTAATGTA TTTTAAAATG TTAATATAGT TCTGAAGAAG	360
	TATAAATGAG GTGTTGAAAT GGCTAAAAAT AAGAAAACGA ACGCGATGCG TATGCTTGAT	420
	CGTGCAAAAA TTAAATACGA AGTTCATAGC TTTGAGGTAC nTTAAGAACA TT	472
30	(2) INFORMATION FOR SEQ ID NO: 734:	
3 5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 519 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 734:	
40	CATAGCCCCA AATTTTTCT ATTATTTGTT CACGAGTAAA GATTTGCTTA GGACGTGCTG	. 60
	CAAGCATAAA TAATAATTGA AATTCCTTGT TCGGTAACGT CATCGTTTTA TTAGATACTT	120
45	GGAGTTCCAA ATAGGATTGG TTTAGCGTTA AGTTGCCAAT AGTCATTTCT GAATTTGAAT	180
	TGATATTATA TCGACGTAAT ACAGCACGAA TTCTAAAAAT AAGTTCCTTA ACCTCAAAGG	240
	GTTTGGTTAC ATAATCGTCA GTACCGCTTA TAAACGCACG CTCTTTGTCA CTAAGTGCAT	300
50	CCCGCGCTGT TAACATAATA ACTGGTATAT CATAATCATT TTTTAATGTA TTACATAATT	360
	GAAAGCCGTC CATACCATCC ATCATAATAT CTACCACTGC AATATCGACA CGCTGTTTTT	420

	GTTTTGTmAA ATGGGCTAGC TATAATAATT TAGGGGATT	519						
	(2) INFORMATION FOR SEQ ID NO: 735:							
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear							
10								
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 735:							
15	ACTTGAAAAC GATAAACAGT ACTTTCCAGC TACACATTGG AAAGCTATAA ATGGGATACC	60						
	TTATGCAGGC AGTAGTGATA TTGATGGATT GCCTCAAGAC GGTATCATTT CGGTAAATGA	120						
	TAAAAATAAA TTAGATAATT TAAAAATAGG CGAACAGGAA TTATTCAAAA TAGCATTGTA	180						
20	CAGAAATCCC CAAACGGTAA ATTGTGGAAA ATAACAGTTG ACGATAGTGG GAAACTTGGT	240						
	ACAGTGCTAT TTTATTAGAA AGGAAGGTGC ATTATGGAAA ATTTGTATTT AATAAAGGAT	300						
	TTGGGAGCTT TAGCAGGTCG AGATTATAGA GCTAAGGAAA TACAAAACTT ACAAGGAATA	360						
25	GGCATTGCGC TGGGCTGACC ACCAGGGTTT ANGTGNCCNC	400						
	(2) INFORMATION FOR SEQ ID NO: 736:							
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 780 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear							
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 736:							
	CTTTTTTATT GAAAAAGTGG TATTTGATTA TCTATTTACT ATTTATATTA GCGGCACTCC	60						
40	TTATTACATT AACGACAATC CAACATGTAA CAGAAGATGA CAATCATnTT AATATAGGTG	120						
	TCGTAGATAA AGATCAATCA AGTGAAACGA AATTAATCTT AAACTCTATT GGTAAAGGGA	180						
	GTAACCTAGG AAAAAACGTG AGCATTAAAG CATATGATGA TAAGCAAGCA CATACTTTGT	240						
45	TAAAAAAACA TAAACTTCAA GGCTATTTTG TTTTTGATAA AGGTATGACC AAGGCATTTT	300						
	ATAAACAAGG CGAACTACCA ATTTCAGTAT ATACATATGA TCAACAATCC ATGAAAAGTG	360						
	TCGTGCTATC TCAGCTAACA GATTCTGTTT ACCAACGTCT TATGCGATCA ATGGGTGGCA	420						
50	TCTTAGCTTT TCAAGACTTA GCACCGAAAG CATCACATTC TGACAGTATC AATGTTATGA	480						
	CTGATTTGCT GATLACAGGA TTAAACCGTT CAGGTGCALT TAACTTAGAA CCGATTCATT	540						

	TORRANGE TOTALIGAE GCGCGATTGA	660
	AAATGITTCA TTTTTCTAAA GAGCGTTTAT TAATCATTCG TACGTTGATT ACATGGTTTT	720
5	ATACTATGTT ATGGGNGTAT CGNTGGTGTA GTTTGGAATG TGGTTCAGTA TTCCGAATNA	780
	(2) INFORMATION FOR SEQ ID NO: 737:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 946 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 737:	
	TATTTAATTT CTTDATTDTG GTTTTTAATT DTAAGATGAC CATAAATGAA TTTCTTCTGC	60
20	TGTCATAGAA TTAGAGCAAA ATACGAGCAT AAATTTAACT AATTTCTTGC TTGTCTTATA	120
	GTCTTGATTG CCTTGTAAAA ATGTTAGTAT TAATTGCTTC ATCGTTTCGA ATTGTTGTGT	180
	TGATTTAATA GCGATTGCTA AACCTATATT TTTTTCGAAA AGCTTTTCAA AACATCTATT	240
25	TAACAGGTTG TAATTCGTTT GGCTAATCTC AATATCGTGA ATATCGTCAA TGAAAACGAC	300
	AGGTTTTGGT AAGTGCTCAA AGTTAATATC GTAATATTCA TTGAAAALAA ATTGAAATAG	360
	TTCATTGAAA TTACTAAATC GAACAAATAC TTTGGCACGC TGACTTCGAT CTTTCGGATT	420
30	AAAATCATCT ATATGAATAT CTGTTGTATT TGTAGCCAGT TGAGCTGTTA AATCAATTGT	480
	TGAAATTAAC TCAGTGAATT GTGATACGTT ATCTTGTTGG AAGTGTATTT GTGGTGGTTC	540
35	AGTAATCTTG GAAACGAGTG AACGGAACTG TTTAGGACTA AAATGCAAGT AATTCTTAAA	600
,,,	TTGATTTGCA AAATTTGTAT GACTGTTAAA ACCGGCCAAT TCAGAAACAG TTGTAATAGA	660
	ATGTTTTGTA GAAAGTAATA AATTGATGGC GTTAACAAGT TTAATACTTG TAAAATAATC	720
10	TTTAAAATTC ATACTCAAAT ATCGAACAAA AAGATTAGAA CAATATGATT CAGAGATGTT	780
	GCAATGCATC GCTATATCTT TTAAAGACAA GTGCGCATCA ATATKGTCAT GAATATAGTT	840
	TACACAGTCT ATGAACACCG GATTGCTŢAA AGCAATATTT GGTAAATATT CATGATCTAT	900
15	TCTTATAAAA GCTTCTTTAA GTAAAGTGTC TATNATACTT TGACCT	946
	(2) INFORMATION FOR SEQ ID NO: 738:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 738:	
_	TTTATTTGAT GATGTACTAA AGCAAGATGA AAGATTTGTT ATTGTAGTTC AAGCATTAGA	60
5	AGAAAAGAAC GGACAATTAT TAAAGAGAAC TTTAAGGGAA TATCCCGGTT TAAACCATAA	120
	ACAAATGAAT GATTTATTTA TGCACTTAAA GGAATTATTT TCCGAAGAAT CATTTGCTGA	180
10	AAACCAATCA GCGTTCAGTA TTACAGTTTA TACAAATTTA GATTATACTG CTGACCAAAT	240
	ATATGCTCAT GTAAAACGTT TCAGAGGTAA GCATGACTGG ACACAAACAG CTAAATAAAA	300
	TCAAGATGCT TGCAGTGGAT TXTAACMATT AATGLTAGAT GTCMCYGCAT TTTTAATGCC	360
15	ATTCGGTAAT TAATCCGGAT GGTCCAATTT AATTAAC	397
	(2) INFORMATION FOR SEQ ID NO: 739:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 915 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 739:	
	CAAGGTATTT CATTTGACCC ATTCACACCA TTAATAGTGG CAGCAGCATT ATACTTTGTC	60
30	TTAACATITG TACTTACACG CATTATGAAC ATGATTGAAG GGAGATTGAA TGCCAGTGAT	120
	TAAAATAAAC AATCTTAATA AAGTTTTTGG AGATAATGAA GTTTTAAAAS ATATCAATCT	180
25	TGAAATCAAT CAAGGGGAAG TAGTAGCAAT AATAGGTCCA TCTGGTAGTG GTAAAAGTAC	240
35	ATTGTTAAGA TGTATGAATT TATTAGAAGT ACCTACTAAA GGTCAAGTGA TTTTTGAAGG	300
	CAATGACTTA ACGGAAAAAG GGACACAAGT AGATAAACTA CGTCAAAAAA TGGGTATGGT	360
40	ATTTCAAAAC TTCAACCTAT TTCCACATAA AAAAGTTGTC GATAATATTA TTTTAGCTCC	420
	TAAATTATTA AAGAAAGATA ATAACGATGA ATTACATAAG GAAGCATTGT CGTTATTAGA	480
	TAAAGTGGGA TTAAAAGAAA AAGCAGATGT ATATCCGAAT CAATTATCAG GTGGTCAAAA	540
45	ACAAAGGGTA GCAATTGCAA GAGCTTTAGC AATGCATCCA GATGTTATTT TATTCGATGA	600
	ACCAACTTCA GCATTAGATC CTGAGGTAGT TGGTGATGTA TTAAAAGTAA TGAAAGACCT	660
	AGCCAAAGAA GGTATGACCA TGGTGGTTGT GACACATGAA ATGGGATTTG CCAAAGATGT	720
50	AAGTGACAAA GTCATATTTA TGGCAGATGG CGTTGTCGTA GAGTCAGGCA CnCCAGTCGA	780
	AATATTTGAA CAACCGCAAC ATGAAAGAAC ACAAAATTTC TTAGCAAGAG TATTATAACA	840
	ACCTAACGAG GCTTGAATAT ATGATACGCA CCACAAAGTT ATATCATATA TTCAAGCTTT	900

(2) INFORMATION FOR SEQ ID NO: 740:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 435 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(with appropriate programment and the re-	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 740:	
	AGTAAATGCG ATGTTGCATG GAGGCTATAG CAATGAGCAA TAAAGCTTGG GGCGGTAGAT	60
15	TTGAAGTACA ACCTGAAGAG TGGGTTGACG ACTTTAACGC ATCCATTACT TTTGATCAAA	120
	CGCTCATAGA TCAAGATATC GAAGGCAGCA TTGCACATGC AACTATGCTT GCGAATCAAG	180
	GCATTATTAG TCAACAAGAC AGCGAACAAA TTATACAAGG ACTAAAATCT ATTCAACATG	240
20	ATTATCATCA AGATCAAATT CAATTTAGTG CATCATTAGA AGATATTCAT TTAAATATTG	300
	AACATGGAAT TAATTAAACG TATCGGTGGA TGCTGGTGGT AAGTTGCATA CTGGACGCGT	360
0.5	AGEAAACGAT CAAGTTGCAA CAGACATGCA CTTGTACACT GAAGAAACAA GTGCAAGnnn	420
25	TCATCGCATT GGATG	435
	(2) INFORMATION FOR SEQ ID NO: 741:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1198 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 741:	
	AATATCATAA CCAAAGCTTG TCATTACTTA TATGTAAAGA TTAGAGGCTA ATTACATAAT	60
40	CCTAACTTAT TTAACAGGAA GTCATGAAAA CTATATTACA ACTAAAAGTA TAACTTTCCA	120
	TCACCAAAGT CAGAATTTAT TGAAACACTC AACTGATAAT ATAGAAGGCT AATTATAAAA	180
45	ATACCTGGCG ATTAATAAAC TGTTTCCGTT TTTTAGCACT TAATATATTT AAAAAGACAA	240
10	ATAGAGCCCT TTCAGGCTCT ATTTnCTGTA TCCTTAACAA CAGAAGCTGT TAAAACTACC	300
	CGTCTTTTCa CAaCCAAaGc TaCAAAAaaG aTgGCTAGTT ATTCTTTCGT CACCCGCTGA	360
50	ATCATTAGTG TTGTTATTTC CTTTAACTTG CACGTCTAAA TCAAGAaCTT TTTCCAAaGA	420
	TRANACCCCC TATTTAAAAG TTGAAGTTAA GACCCCTTCA ATTGTCATAT TAATCATTAC	480
	CACACAATAA ATCAATGAAT TTAATAATAA TTATTTGTTA TTAATTTGTA AATCGTCATT	540
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	TGAATATTTT	TTGTTTAACT	CTTAAATTTC	GGGTTTAACT	TCCTCTATTT	CTAACAGTTA	660
_	TACTCCAGGA	TTAGTTTCTT	TAGAATCCGT	ACCGATTAAT	TTAACAGTAT	GGTTTTGCCA	720
5	GTCAACTTCA	TAAGTAGATG	TAAACGTTAC	TGTATTTTGA	TnTTTGTAGT	TATTTCCAAC	780
	CCAGTGTAGT	CGATTCCATT	GATTAGTATA	TCTATCCATT	TCTCTTTGGT	AAGTTACTTT	840
10	GATTTTAGAT	TtTTTGTAT	CATTTTGTTT	ATGAGAAAGT	ACGCTTATAA	ATTCTGGGTT	900
	AAAGTTACCA	CGCGCCAATA	AAGGCATTTG	ATGTGTTGGC	AAGAAATTTT	GACCAGCATT	960
a	TGAACTACTT	TGTCTACCAC	CTAAAAACAG	TTCATTACCA	TATGTTGGGT	CATAACTATC	1020
15	TCTACCATAT	GGTCCCCAAC	CATTATTCAT	AATTTTGTGC	GCCTCAACAC	CCCAGCCAAT	1080
	TGATTTATGA	TTTGTTTTTC	TATCAATCGT	AGTTCTGTAA	CTTTCTTGTT	TATAATTTAT	1140
	CGTTTCTGAA	AATGATTTTG	ATCCATTTAA	TCCACCTGAT	AAGCCATTAG	ATATATTA	1198
20	(2) INFORMA	TION FOR SE	Q ID NO: 74	2:			
	(i) SE	QUENCE CHAR	ACTERISTICS	:			

- (A) LENGTH: 818 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 742: GTGGCATATN CAAACTACTA CTGAAAGATC AATTACATAC GTACAGATTT TGCAAAATGA 60 TCAAGATTAT CCAACAATTT TTAGATGAGA CAAAACGTAA ATCTGTAATT AATTCAGATG 120 TTAATGTAAC GGTAAAAGAT AGAATAATGA CTTTATCAAC GTGCGAAGAT GCATATAGTG 180 AAACGACGAA AAGAATTGET GTTGTCGCAA AAATAATTAA GGTAAGTTAA ACAGAAAMGA 240 GGATAATTAT GAAATTTATG GCAGAAAATA GGCTGACGTT AACAAAAGGA ACAGCAAAAG 300 ATATTATAGA ACGATTTTAC ACGAGACATG GGATTGAAAC ATTAGAAGGC TTTGATGGCA 360 TGTTTGTTAC ACAAACTTTA GAACAAGAAG ATTTTGATGA AGTGAAAATT TTAACAGTTT 420 GGAAATCAAA GCAAGCTTTT ACGGATTGGT TAAAATCTGA TGTCTTTAAA GCAGCGCATA 480 AACATGTTAG AAGTAAAAAT GAAGATGAAA GTAGCCCGAT TATAAATAAC AAAGTAATTA 540 CATATGATAT AGGCTATAGT TACATGAAAT AATTGAATTT AAAGAGGTTG CAGTACTTGT 600 TATGACAATT GGTATTGTTA GCTTTTGTAA CGACCATACA TGATACCGAT GATGGTCGTT 660 TTTTTAATGA ACACAAACAT GCTAACAACA AATTGCTAAA ACATAGTTTG aTTTGAATGT 720 GGCTTTGGAA AATAATCATC CALTATATCA TTLTGGATTn TATTTTGGAA GAAGAAAAGA

(2) INFORMATION FOR SEQ ID NO: 743:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1209 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 743:

	•					•	
	TGCTGGTAAA	TCTTCCCTTA	TCAAGTCTTT	AATTGGTGAA	TTTAATGCTA	CCGGTACTAA	60
15	ATTGTTATAT	AACAAACCTA	TACAACAACA	ACTGCAACAT	ATTACATATA	TTCCACAAAA	120
	AGCACATATT	GATTTAGATT	TTCCTATAAG	TGTGGAACAA	GTGATTTTAT	CAGGTTGCTA	180
	CAAAGAAATT	GGATGGTTTA	GACGACCTAA	TAAATCAGCA	AGGGATAAAC	TCAAACAGTT	240
20	ATTAAGCGAT	TTAGAATTAG	AATCTTTACG	TCATCGACAA	ATTTCAGAAT	TAAGTGGTGG	300
	ACAATTACAA	CGTGTGCTAG	TAGCAAGAGC	ATTGATGTCC	GnAAGTGAAG	TTTATTTTCT	360
25	AGATGAGCCG	TTTGTCGGAA	TTGATTTTAG	TAGCGAAAAA	tTAATCATGA	CAAAAATcGA	420
	GAACTTAAAA	CAACAAGGAA	AACTTATTCT	TATCATCCAC	CATGATCTAT	CAAAAGCAAA	480
•	GCAATACTTT	GATCGCATTA	TTCTATTAAA	TCAAACATTA	CGATACTTTG	GTGATAGTGA	540
30	AGAGGCTATG	AGTGTCACTC	GCTTAAACGA	AACATTTATG	AGTAGCACTG	ACTGTAGTGA	600
	CCCTAGTCAA	AGGAGCAATA	TAACATGTTA	GAGTTTGTCG	AACATTTATT	TACATATCAA	660
	TTCTTGAATC	GAGCATTGAT	AACTTCAATT	ATTGTAGGGA	TAGTTTGTGG	TACAGTTGGT	720
35	AGTTTAATTG	TATTACGTGG	TCTTTCATTA	ATGGGAGATG	CAATGAGTCA	CGCAGTATTA	780
	CCTGGTGTTG	CCCTATCATT	CTTATTTGGT	ATTCCAATGT	TTGTAGGCGC	ACTTATAACT	840
	GGTATGATCG	CAAGTATTTT	TATCGGTTAT	ATCACATCTA	GTAGTAAAAC	GAAACCTGAC	900
40	GCCGCTATTG	GAATTAGTTT	TACCGCTTTC	TTAGCTTCGG	GGATTATTAT	TATTAGCTTA	960
	ATAAACACTA	CGACAGATTT	GTACCATATT	CTGTTTGGTA	ATTTACTGGC	AATCACAAAT	1020
45	AGTGCATTTT	TAACAACTAT	TGTGATTGGT	TCAATCGTCC	TTATTCTAAT	CATTATTTTC	1080
	TATCGTCCAT	TAATGATTTC	TACATTCGAT	CCAACGTTTA	GTAGAATGAG	TGGTCTAAAT	1140
	ACGACGTTAT	TACATTACTT	TGTGATGTTG	tTACTCTCAT	TAGNAACAGT	AGCAAGTALT	1200
50	CmAACGGTA						1209

(2) INFORMATION FOR SEQ ID NO: 744:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 675 base pairs

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 744:	
	CCGCCTTTCG TAAACCTAAT ATAATACGAA ATTTTCGTAT TGTCAACATT AAATACGTTT	60
10	TTTTCGTAAA AAACTTTACT ATGATATGAA AATTTCGTAT AATAAGAAAA AAGGAGGTAA	120
	GTAATATGAA CAAAGAMAGM AATATTATTA TAGCCAAAAM CATTAGAAAA TTTCTCAACG	180
-	ATTCAAATAT GTCTCAAAAG AAACTTGCTG AACTCATTAA CATAAAACCA TCTACTTTAA	240
15	GCGATTATTT AAATTTACGT TCCAACCCCT CTCACGGCGT TATACAAAGG ATAGCTGATG	300
	TTTTCGAGGT TGGTAAAAGC GACATAGATA CTACATACAA AGACGATAAC GACATCACTT	360
	CCATATACAA CAAACTCACA CCTCCCCGCC AAGAAAACGT ACTTAACTAT GCAAATGAAC	420
20	AATTGGAAGA ACAGAATTCT AAAGGAGATA ACGTTGTAGA TATTAATTCA TATAAACAGG	480
. ·	AGAAAACTCC AGTTAACGTC AATGGTTGCG TCTCTGCTGG TGTAGGAGAA CGTTTACACG	540
	ATGAAACGCT ATTTACTGAA ATGGTTAAAG GACCTATCCC CACACACGAT TTAGCGTTAA	600
25	AAGTAAATGG TGATTCTATG GYACCTATGT TTAAAGATGG CGAAATCATA TTTGTGGAGA	660
	AAACTCACAA TnTGA	675
30	(2) INFORMATION FOR SEQ ID NO: 745:	075
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 924 base pairs	
<i>35</i>	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 745:	
	CAGGTGTCAT AGTTGAACTT GGLGGTTTTG GACTAATCGT TAAATCATCA ATTTGTGTCA	60
	TCCAAGGTTG GAATTTACTG CCTTGTGTCT CCAGTGCGCT GAAAATACCT TTATCTTGAA	120
45	ATAAGTCAAC TAACTCTTGG ATACCTTTAA TTAATGCTGG GTTACCACCA GAAATTGTAA	180
	CGTGGTTAAA TAAATCGCCA CCAATTCGTT TTAATTCATC ATAAATTTCT TCAGCGGTCA	240
	TGAGTTTTAT ATCGCCTTTA GCACTACCAT CCCAAGTAAA TGCAGAATCA CACCAGCTAC	300
50	AGGATAATCA CATCCAGCTG TTCTCACAAA CATCGTTTTT CTACCGATTA CTCGACCTTC	360
	ACCCTGAATG GTTGGACCGA ATATTTCGAG TACAGGAATT TTAGCCATTA GTTACACCTG	420
	TTCCTTTGGT CTAAATACGA CATAACTTGT TGGTGTTTCT CTTACAAATA CTTGAATACA	480

	TACGATTTCA	GTTGAAGGGA	TTTTGTTTTT	AAAAGCAGGT	AAGTTATTTA	ACAGTTGATG	600	
	GTCAAATTTA	CCGTGTATCA	TCTTTTTCAA	ATGGCTAAAG	TTCACTAAGA	AGCCAGTGTC	660	
5	ATCTAGTTTA	TCACCGACAA	TTGTTAAaya	CAAAGTAAGT	ATGACCATGG	ACATTTTGAC	720	
	AAATACCTGC	TTCTTCACAT	GGAATGTGAT	GTGCAGCCGA	AAAATTAAAA	TCTTTATTTA	780	
10	ATTCGAATTG	ATATGGATGC	GTTGTACTAG	GATAGATTTG	TTGTAACATT	TTAAAGCGCT	840	
	CCTTTACTTT	CAAGATATTG	ATTTAGTCCA	CGTTGACGTA	AATGACAAGC	TGGACATTCA	900	
	CCACAGCCAT	CCCCAATGAT	ACCG				924	
15	(2) INFORMATION FOR SEQ ID NO: 746:							
	(i) SEQUENCE CHARACTERISTICS:							

- (A) LENGTH: 971 base pairs (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 746:

ATCTTTTGGG	TATTTTCTAT	ATTAGCTGTT	GTTTTCTTAG	TATTATTTAG	TTTTGCTGTT	60
GGTGCATCAA	ATGTACCAAT	GATGATTTTA	ACATTTATAT	TACTCGTTGC	AACCTTTGGA	120
ATTGGATTTA	CTACAAAGAA	AAAATATCGA	GAAAACGATT	GGCTATAAGT	TATATCGACA	180
ATAACACGCG	TTGATTTAAG	ACCACACATG	TTCATGATGA	ACATTTAACT	GGTTTTATAT	240
TGGCGCGTGT	TTTTATTATT	TAAGGTATAA	AAGCGTAATA	TGTTACCTAA	TTGTTAGGAC	300
TACATATTAC	GCTTTTGGTA	ATTATTTTGA	TTTTCTTTTA	AATCGTTGTT	CATGTAATTG	360
TATTAACGCA	TCATGGTGGG	GCTCTAAaTA	ATCATEGCTA	ATTCTTGATG	GAGACCMCGA	420
TTLCCAACTA	rGATkGAATT	kGGACCmCTA	ATKGTTAATG	GTcctCCTAG	TAAATTGGAA	480
GCTTGTCCAT	TaCTTCcATA	TAAAtAACCA	ATCCGCCAGC	AAAtCCCcAT	GGTKGAAGTC	540
TTGGCGTCAT	ATATGCTTCT	AAaTTACCTG	TAGCAACTGA	AACGATTTCA	AGCGCTGCAC	600
TACCATATGC	CCTTGCACTT	CTAGAATCAT	TAACAATTTC	TTTAAAGATT	TCTCCTAAAA	650
TTGGTTTAGT	TAACCAGTTC	GGATTGATCC	CAATAATGCT	TTGTCTTAGA	TTAGAATCAT	720
TCAATGGTTT	CAAGGGTTGG	CTACCACGAT	ATGCACCTTC	CCCTACTTTA	GCATGATATA	780
AGACATCAGC	CATAACATCA	TATACAAAAC	CTGCATAAGG	TTTACCATCG	ATATAAATAC	840
CAATTGAAAT	TGCGAAATTT	TCTTGTTGAT	GAACAAAATT	CAATGTACCG	TCTATTGGGT	900
CAACAATCCA	TACCGTACCT	TTGGAAGTAT	CGATGTCATG	ACCATGCCCT	TCTTCACCTA	960

(2) INFORMATION FOR SEQ ID NO: 747:

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5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 865 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 747:	
•	TICTCGTCAC TGTACGTTGT ATTGCGGCAT CATCCATTAT GATACGTTCA GACATATTCT	60
		120
15	CACCCTTTCA AAATTTAGAA ACAAAAAACC TCATGTCTTT AATATCGACA TGAGGTTTAG	
	TATATACAAT CAGCCTATTT ACATAGAAGA ATCGTAGTAT TACTACTTAT TCTTGCATAT	180
	GTGAAAGTGT TATGATCATT TTAGTATATA TCTATATTTT CATGTCTTTG ACGTCTCTCT	240
20	GGACGCTCAA TTAAAGACTC TTTATGTTGT ACTTAAACTG TTATAAGGAT AATACTAATC	300
	AGGCGCTTTG TCAATCTATA TTGAAAAATT AACCATACTC AGTAAAAATG TTAACCTTAA	360
	TCTATTTTAT AATGTGTTTT CATTTAAAAA AAACGAAAAC GATAAACACT TATAGTTTAC	420
25	ATAATAATGT TATCGTAATT ATAGCACGAC ACAATTATGC ATCTCTTTTT CGAATTGTAT	480
	CTAATAAATC TTCAAAGTCT TGTGGTAATT CAGCATGTCT TTCAATATAT TCACCTGTTA	540
	CTGGATGTTC GAATCCAATA AGTCCAGCAT GTAGAGCTTG ACCACCAATA TCCAATGTCT	600
30	TTTTCGGTCC ATACTTTGGA TCACCAACTA ATGGGAAGCC AATATATTTC ATGTGAACAC	660
	GGATTTGATG CGTACGTCCT GTTTCAAGTT GACATTCAAC AAGCGTATAA TCTTTAAAAT	720
	GTTCTAGTAC GTTAAAATGT GTCACTGCTT CCTTACCATC ATCARCAACA GCCATAGATT	780
35	GACGATCATT TTTGTTTCTA CCAATTGGCG CATCGATTGT ACCGTAATCA TGAGGAATAT	840
٠	TCCCGTGGAA CTAAAnCGAT ATAGT	865
40	(2) INFORMATION FOR SEQ ID NO: 748:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 818 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 748:	
50	ATAACATTGT GGAGCCTATG ACATTGATTT ATGTCTCGGT CTCAAATGTT CTTGTAAAAA	60
	AACTAAGTAT AGTTGAATT TAAGTTAAAA AAATTGTTTT TGCAAAAATA AAATAATCCA	120

	TTTTAGGTTC TTCGCCTCTA AAAATCCTTG CGATATTAGA GCGATGTCTA ATTATCAATA	240
	TGATTGAAAC TAAGAAACTA ACGACTAATA AAATATAGTC TTGAATGATA AGCGAGCCAA	300
5	TCACACAGCA AATTGCTGCA ACGATACTTG CTAAAGAAAC ATATTTAAAA ATCTTCAATA	360
	CAATAAAGAA GATAATTGCA AGTATTAGTA AAAGTATCGG ATTGACTCCC AAGACGACAC	420
10	CTGCACTAGT TGCAACAGCT TTGCCACCTT GGAATTTTAA ATAAACAGGA TAAACGTGTC	480
10	CAAGTATAGC GAATAAGCCA ACAATTAAAC CATTTGTAAA AAAAGTACTA ATAGGGCCAT	540
	CTGCGTGAAC TTGTAACCAT AAAGGGAAGA AAACAGTTAT GAACCCTTTG AAAATATCTA	600
15	GAAATGTTAC CAAGAATCCT GCAGGACGAC CTAATACTCT AAAGCTATTA GTAGCGCCAG	660
	TATTACCACT ACCAAATTGT CTAATATCTT TTTTGAAAAA TAATTTTCCA ATTACGAATC	720
	CACTTGGGAA AGCGCCGATA AGATAACTTA GTAGTAACAT GACGATTATC ATCATAAATA	780
20	TTACACATCC TTTAATATCT TAGGACTATT TTATCATA	819
	(2) INFORMATION FOR SEQ ID NO: 749:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 971 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 749:	
	ATATCCAATA ACTGTTCATT GTCTTGATAT TCCTTAAATG TTTCATAATG CTCATTAGAA	60
35	ATGACAATTT CAAGCAACCA ACCCGTGCCA CTTTCCTCTT TATTAATTAT TACGCCATCT	120
	TCTAATTCAT ATTCTATAAT TCTGCCGTGT TCATTCACAA TTTGAAACCT TACTGCTTTA	180
	AAAGTTTTCA TATTCCCACA TCCCATTAGT TTAATATTTA TGATTTTTGA ATTATTTAGA	240
40	AGATTTAAGG TCATTTCATG ACTAATTTCT TTAAATATAA CAAATAACGA GATGCTATAG	300
	CTATTAATTA TATAAAATTT GCCATTTTGA CCATTTTTAA GCTAGTAATT AAGATATAGG	360
	CATAGGAGGT GAATCACACA CTACATGCTA AATAAAATCG TAATTGTCGG GAGCTGACGA	420
45	AAGACGCACA AATATTTGAA AAGGAGGATA GAAAAATTGC AACGTTTTGT GTTGCAACGC	480
	ACCGAAATTA TAAAGATGAA AATGGAGAAA TCGTCTGTGA TTACTTATTC TGTAAAGCAT	540
	TTGGCAAGTT AGCTTCTAAT ATAGAAAAAT ATACTAATCA AGGTACATTG GTTGGTATAA	600
50	CTGGTCAAAT GAGATCAAGA AAGTATGATA AAGACGGACA AACACACTTT GTCACTGAAT	660
	TATATGTTGA AACAATAAAA TTTATGTCCC CTAAATCCCA AAATAATGAA ATTCTCTCAG	720

	TCCAATTATC CTAAACATCC TTAATATACA TTTAATCCAT CCTAAATTTT TTATAGATCT	840
	AATTAACTTG AAATATACTC ACTTAAAAAC GACTTACATG ACCTAGTACT GTTGGTAAGG	900
5	TCGnCTTTTG GTGTAGTTTT CCTAATAGAn AATAGACnTA GGTTGCCAAA CCGATTACAT	960
	AAAAAATTGC C	971
10	(2) INFORMATION FOR SEQ ID NO: 750:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 832 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 750:	
20	ATAGATTACT CTTTTGATCT GTAGATCCTA CTGTAACGAC ATTGTCCATA GATGCAGGAA	60
	CATCTITCAC TTCGCCATTA CCTTGATATT CACGCTGTAA TTTTAGTTTC TGTTTGTCAT	120
	TGACATCAAT ACCATCATTA CCAGCTGCAG CAACAACGAT AGATTTTTTC TTCTTGGCGT	180
25	AATTGATTGC TTTCTGTAAC GCATCGTATT CTACTTTTTC ATCTTTTCTA AATGTTTGAT	240
	GGTCATTTTT GTCCAAAATA ATATAACTAC CAACACTAAT ATTAATGACT TGATTTCCAT	300
30	CATTTGCAGC TTGAACAATC GCTTTTGATA CCCAAAGCAG TTCTGTTTTT TTACTACCAA	360
	ACACGCGATA CATTGTAAAT TTGTTATTCG GTGCAACACC TATTAACTTA CCATTAGCAC	420
	TCGTTTGACC CGACACCATC GTGCCATGTC CTTTCCTATC ATTGACATCG TGAACATCAC	480
35	CTGTTTCCTC CGGTTCAGTA CCTCTAAAAC CGTTTAAAGG TACTAAATTT TTAGAATCAG	540
	TCGAGAAATT ATTTTCAAA TCGTCATGGT TTTTCATCAC ACCTGTATCT ATGATTGCTA	600
	TTTTGGTGTT AGCATGTTTT GGCAAATCAT CATACGATGC ACCATTATTG GTTATTTAT	660
40	TCATATCCCA TTGTCTTGAA AATAATGACT CATTTGATGT TCTGTCTATT GTTTTCTCGC	720
	TAGTAATACA AGTTGAACAT GTGGCATTGA TATATTTAAL ATCATTTTTA TAGTTTGCTA	780
	AAGCATTAGC ATGCATTTTC GTCATTTTAA TCTGTGCCAC ATGGAATTCC GG	832
45	(2) INFORMATION FOR SEQ ID NO: 751:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 475 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GTAATATCAA	TCTCTTCATA	AGCTGAATTA	TTTTCATGCA	CTTCTTGATG	TGATGATTTG	60
	TCACGAACCG	CTACAACTAA	CATTTTATCG	TCTAAAATAA	GTTGTTTATA	TTTTTCTAAT	120
5	TCATCAGGCG	CTAAGTTGTA	GCGTGATAAA	ACTGCATGTT	CACCATCTTC	TCCTGTTAAC	180
	AGTTTAGTCA	TTCTATCACT	AAATGTTCCA	CTTGTTGAGA	TAAGGGAGAT	TTCAGAGTCG	240
	TGTAAGTCAT	TTAGGTGTAA	TTTACTTTTA	CTAATAATTG	TTAGCTCTGA	TTCTAAATAA	300
10	CCTTCAGATT	TCTTTTGATT	GATTACGTTG	TATAATTCGC	CAGTGTCATT	TACTACAGTA	360
	ATATCTGCCA	TAGTTGTCGC	CCCTTTAAAA	ATTTGTTTAT	tTAATCTTTT	ACCCTTCTTA	420
15	Tnataaagta	AAACCCTTAC	ATTATTAAGT	nATAAGTCTT	CATTCGCATT	AAACG	475
	(2) INFORMA	ATION FOR SE	EQ ID NO: 75	52:			

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 1019 base pairs
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 752:

60	GGACAATCAT	CAAAGGCTAT	GCGTTATCTT	AGCAGCAAAC	TGAGTTCTCC	GCGACACTTG
120	CGGTAACCTT	TTCAAAAAGG	ACACCTAAGA	CAAACAGCAA	CGCAGTCAAG	CCACAACAAA
180	TCGTCACCAA	CAAATAACGA	GTTATATTAC	ACACGCAAAT	AACAACGTGA	AAACCATTAG
240	TGAAGCACCT	ATATTCAAGT	CCCGTAACTT	TYATTATGCA	CAACGAATGG	ATCACAGATA
300	AACAAATAAA	ATACTCTTTT	GTAGGTAAAG	CGGTGTAGTT	TTATTGCTTC	ACTGGTACAT
360	TTCTGCAATT	AAGCATTCCC	CATGCTTTAA	CGGTGATCCT	ATGCTACGCA	CACGTCGTAG
420	ATATTCAGGC	AAATCACTAA	ACTGCTGAAC	TGGTGGTTTC	ATTATCCAAA	AACCAAGACA
480	TATTGGTGAA	AAAACAAACA	CCTAATGAGC	TAAATTCTCC	TAGCAATAGT	GAAGGTGATT
540	AAATATTACT	AAGTTAACCA	GCTGAAACAC	GAGTAATAAT	CAGCAACAAT	GTAGTTAAAC
600	AGGAAAAATC	GGGAAAGTAA	GCAACAATGT	TAAACCTGTA	ATCCTGGTGA	GTAACAGGAT
660	AATTCAGGTT	AACTGGTGGT	ATTTAAGTAC	ATGCAATATG	AAGGCGAACT	ACTTACCTCA
720	GTACCAAATG	TTGGGGCGGT	TCGGaATTCA	AATGAAGTGA	TAATGAAAAA	CACCTGTATT
780	CAAAATATTG	CTTCTTAAAA	ATGTACGCAA	ATTAATGAAA	TGCGGTATIT	AATTTaATGG
840	GATAACCCTA	AGATAATCCT	CTAATAACCC	GATGACCAAC	TTTTGCCAAC	AAGATATCCA
900	CCTAACAACC	CCCnGACAAC	AACCAAATAA	AACCCAGATG	TAACCCTAAC	ACAATCCTGA

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	CAATTAAGTT CGTCTAGATA AAATAGGAAG CAAAGTCTTA GCAACGTAAA ATATTTTGA	1019
5	(2) INFORMATION FOR SEQ ID NO: 753:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 533 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 753:	
15	ATTCTTATCC CAGGTAGGTG nTTTACTTCT TATATTAGGT GCAATAACTC ATGCCACTCA	60
	TCTTGTGGCA CAACATGAAT CGCATTTTCA AAAATTGCAT GTCCTGCTTG ATCAGTCAAA	120
	CCGGCAGCAT GATCAAAATG CATATGTGTC ATTAGCACAT AATCAATATC CTTTGGCGTT	180
20	AAATTATAAT TTGCCAAATC AGCAATTATA TGACTTTCTT CATCTACTCC AAAATTACGT	240
	AATTGCTTTT CAGATAATTT ACCATTACCA ATACCTGCAT CTATAATCAA ATTATATTGA	300
	GCCGTTTGAA TCAAAATTGG ATGTGTCGGT AAATTGATTT GATTTCGTTC ATTTGCATTG	360
25	TATTGCTTTG ACCACAACGG CTTCGGAACA ACACCAAACA TTGCACCGCC ATCCATTTTT	420
	GTATTGCCAC CATTTAGATA ATGAATAGAT ATATCCCCGA TTTTCATAAC ATCACCTATT	480
	CTTTCTGTAT TCGTTATTAC AATTAGCATG TGTTTATTAC ATCATATCAC TAT	533
30	(2) INFORMATION FOR SEQ ID NO: 754:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 754:	
	ATCCCCTGCA AGTGATAAAA TTATTGAAAA AGGCGACATG ATTACATTAG ATTTTGGCGC	60
	GTATTATAAC GGCTATTGTT CAGATATTAC TAGAACATTT GCTATTGGAG AACCAGATCC	120
45	TAAACTGAAA GAnATATATC ANATAGTACT TGAATCTCAA ATGAAAGCAA TTAATGAGAL	180
	TAGACCTGGC ATGACTGGTG CAGAAGCTGA TGCCATTTCA AGAAACTATE TAGAGTCAAA	240
50	AGGGTATGGA AAAGAATTTG GACATTCACT AGGACATGGT ATTGGTTTAG AAATCCATGA	300
50	AGGGCCAATG CTGGCTCGTA CGATACAAGA TAAACTTCAA GTTAACAACT GTGTTACAGT	360
	AGAACCTGGT GTTTATATAG AAGGTTTGGG CGGTATAAGA ATAGAAGATG ATATTTTAAT	420

	AGCGTGTAAA	ATGAGGAGGA	AACTGAATGA	TTTCGGTTAA	TGATTTTAAA	ACAGGTTTAA	540
	CAATTTCTGT	TGATAACGCT	ATTTGGAAAG	TTATAGACTT	CCAACATGTA	AAGCCTGGTA	600
5	AAGGTTCAGC	ATTCGTTCGT	TCAAAATTAC	GTAATTTAAG	AACTGGTGCA	ATTCAAGAGA	660
	AAACGTTTAG	AGCTGGTGAA	AAAGTTGAAC	CAGCAATGAT	TGaAAATCGT	CGCATGCAAT	720
10	ATTTATATGC	TGACGGAGAT	AATCATGTAT	TTATGGATAA	TGAAAGCTTT	GAACAAACAG	780
10	AACTTTCAAG	TGATTACTTA	AAAGAAGAAT	TGAATTACTT	AAAAGAAGGT	ATGGAAGTAC	840
	AAATTCAAAC	ATACGAAGGT	Gaaactatcg	GTGTTGAATT	ACCTAAAACT	GTTGAATTAA	900
15	CAGTAACTGA	AACAGAACCT	GGTATTAAAG	GTGATACTGC	AACTGGTGCC	ACTaAATCGG	960
	CAACTGTTGA	AACTGGTTAT	ACATTAAATG	TACCTTTATT	TGTAAACGAA	GGTGACGTTT	1020
	TAATTATCAA	CACTGGTGAT	GGAAGCTACA	TTTCAAGAGG	ATAATCTCTA	ATTTGTTAAC	1080
20	AAATAGCTTG	TATTCACTAT	ACTGATTTAA	CGTAAGAnAT	TCTAAATAAG	TCTCATAAAG	1140
	CTATTGCCTA	AAATGATTAT	AGGTTATATG	CTGATATGAG	GCTTTTTATT	TTTAAAATAA	1200
	TTTTTAAAAT	ATAAAACGAA	TCGTC				1225

(2) INFORMATION FOR SEQ ID NO: 755:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 755:

ACAAACAAAT CACTTAGTTA AAATTGACAG TGCATTATAT TCCGATAAAT TATTCAACAT 60 TGTAGAAAnn AGAATTGATA CACCAGATAT TGGCTATAAT ACAGTGGTTT TATCAGAAAA 120 ATGAGTGTAG AAATTAAAGG GATACCTGAn GTGTTGAATA AATTAGAATC GGTATACGGT 180 AAACAAGCAA TGCAGGCTAA GAGTGATAAA GCTTTAAATG AAGCATCTGA ATTTTTTATA 240 AAGGCTTTAA AGAAAGAGTT CGAGAGCTTT AAAGATACGG GTGCCAGTAT AGAAGAAATG 300 ACTAAATCTA AGCCTTATAC AAAAGTTGGT AGTCAAGAAA GGGCTGTTTT AATTGAATGG 360 GTAGGTCCTA TGAATCGCAA AAACATTATT CACTTGAATG AACATGGTTA TACAAGAGAT 420 GGAAAAAAT ATACACCAAG AGGTTTTGGA GTTATTGCAA AAACATTAGC TGCTAGCGAA 480 CGTAAGTATA GAGAAATTAT AAAAAAGGAG TTGGCCAGAT AAATGAATAT ATTAAACACC 540 ATAAAAGGAA TTTTATTATC TGATGCAGAG CTCAAAACAC ATATAAATTC TAGAATATAC 600

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TATGATTTGC CTTCAGACTT TATGTCTGAT AAATATCTCA GTGAAGAATA CTTAATTCAA 720 ATAGATGTAG AATCTTCAAA TAATCAGAAA ACAATTGATA TAACAAAACG AATAAGATAC 780 5 CTGTTATATC AACAAAATTT AATTCAAGCA TCTAGTCAGT TAGATGCTTA TTTTGAAGAA 840 ACTAAACGTT ATGTGATGTC GAGACGATAT CAAGGCATAC CCAAAAATAT ATATTATAAA 900 AATCAGCGCA TCGAATAGGT GTGCTTTTTA ATTTTTAAGG AGGAAATAAG CAATGGCAGA 960 10 AGGACAAGGT TCTTATAAAG TAGGTTTTAA AAGATTATAC GTTGGAGTTT TTAACCCAGA 1020 AGCAACAAAA GTAGTTAAAC GCATGACATG GGAAGATGAA AAAGGTGGTA CAGTTGACCT 1080 AAATATCACA GGTTTAGCAC CAGATTTAGT AGATATGTTT GCATCTAACA AACGTGTATG 1140 15 GATGAAAAA CAAGGTACTA ATGAAAGTTA AGTCCTGACA TGAGTATTTT CAATATTCCA 1200 AGTGaTGaTT TAAACACAGT TATTGGACGT ACTAAAGATA AAAATGGGTA CATCTTGGGT 1260 AGGAG 20 1265

(2) INFORMATION FOR SEQ ID NO: 756:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1111 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 756:

CATATACCCG GGTTCCAAGA ATCCTCTATC CATATGGTCC CCCAATTTTG ATTCCACCAT 60 ATTGTTAAAT ATCACTTTCC CAGCCTACTT TTTTATnCAG TTGGGCTCTC TAAAATTGTT 120 TTGAAATCCA GGTTGAACAT ATTTCCAGTG TATGACCAAT CGAAACATTT GCACCAATAA 180 GGCCGCCAAT TTTTCCTGTA TCATCACCAG TAACATTACC GTTGAATCCA TAAGTTAAAG 240 TACTCATATA CTCTTTTGTA TCAATCGAAT TTCTTGGATA GTAATCAGAT ATTTGAGCTA 300 CTTCATTATC AGGTAGTTGC AACTGTACCT TAAAGGCTGA AGGCCAGGCT AAACCACTTT 360 TGTTAGCACC TTCTTCGCTA TAAACTCTAT ATTGACCAGC AATGGTACCT TTCGTTCTAA 420 TAACTAGCAG TTTTTTATTA TGATTTTTAT CATCGATAAA ACTATAAAAT ACTTTTTTGT 480 GCATGCCATT TTCTTTATCA TAAGTGACTA AATCACCTGT TTTTACTGTA GTATTGCTTC 540 CAATATCTGT AGTACCGGTT TTAATATTAA TATCAGAATC TGCGGCATTA GCGACAGGAT 600 TCATTAATAT GGAACCTAGC AATAGTGTTG TTGTTACTGA GCTGACTATA CGTGTTTTCA 660 TTTTCATCAT CCTTCTATTT TTTAAAACGA TTTGAGGAAA CAATAATCAA TATGTCAATT 720

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	GTAGCAACTG ATAAATTACT GAGTGATGAT GAGTGATTAT TTTAAGAATA TGTTTTTAAC	840
	TTTTATTTAA AATTTGAAAG GAAGCATTTC AATTTCGAGG GTTAGTCAAA GTTGAATAAA	900
5	TTCTTTATGA AACAAGGAAA AGACATAGCT AATTTLATTG ATTAATTTCT TTAAAACTAA	960
	TGATTTGTTT GATTTAAAAA TGTAATCGAT TACAATATAA AAATACAAAT ATCTTAGAAT	1020
-0	TAAATCAATT AATTAACTAT TAAATAAAAA TTAACTATAT ATTAACTAGT GTAAATTAAT	1080
10	AAATAGAAAT AGAGAAAAAG GGTATTAATT A	1111
	(2) INFORMATION FOR SEQ ID NO: 757:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 466 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 757:	
	TATCTATTGT ATGTAACAAT AGGTACATAA TATTTTTAGG GTGGGTTATA TGAGCATAAT	60
25	TACAAGATTG TTTAATAACA GTGATTTTGA AAAATTAAAT CAACTATGTA AATTATATGA	120
	TGATCTAGGT TATCCAACAA ATGAGAATGA TTTAAAAAAG AGACTAAAGA AAATAACGAA	180
20	TCATGATGAT TACTTCCTAC TGCTTTTGAT AAAAGAAAAT AAAATAATTG GTTTAAGTGG	240
30	TATGTGTAAA ATGATGTTTT ACGAAAWAAA TGCAGAGTAT ATGAGAATCC TTGCGTTTGT	300
	TATACATTCT GAATTTAGGA AAAAAGGTTA TGGAAAGAGA TTATTAGCTG ATTCTGAAGA	360
35	ATTTTCTAAA CGGTTGAATT GTAAAGCMAT AACACTAAAT AGTGGTAATA GAGATGANAG	420
	ACATCTGCAC ATAAACTATA TAGTGATAnT GGGTATGTTA GCAATA	466
	(2) INFORMATION FOR SEQ ID NO: 758:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 402 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 758:	
	CGTACAGCAT AACCAAATAC ATATCTGCCA AAATCGCCAT ATGCCCCAGT TCCTCTTCCA	60
50	TATTCCGTTG TCATTGACTT TTTAATTTTA TCGATAGAAA AATGTAAATG GCTATCTAAT	120
	TIGITITITA AAGATTITAT GTAATCECTA TATTTAAATT CGAATATTCT TTTTTATACC	180

	AACTAATATA TWCAATTGTA TGCCTAGCAT AATCTCTCAT TAAAATATGA GGATATACCA	300
	TITCITTATC AAATATETCT TCATAAATAT AATTAGCAAT CTCTATATGT ATTECACAAA	360
5	TGTCGATTCG AAGTGTCGCC CCTAAAACAG YAGCATATAA TC	. 402
	(2) INFORMATION FOR SEQ ID NO: 759:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 759:	
	AAGTTACTCA ACAGCCATTT GACACGTCTC GATTAGAGCG ATTAGGTATA ACCGAGCGCC	60
20	AAACTAAAGA CATGTATCGT TTATTAGGAC TAGCCAAATA TGAAGATCGA TTTGTTATTC	120
	CAACATCACA CAAAGAAACC TATTTAGATA CGTATCACGC ACAAGGTAGT ACAGGATACA	180
	ATTACGGCGG CGAGCATTTT GGAGATAACT GTGAAGGCTG TGGCGTTGCA GTAGGTTCAG	240
25	GGAAAACTGG TCAAGAAATT TATAATGGAG AATTCTATGG AGGGATTTCC GTGGTTAATT	300
	TCGATAATTT AAAAAATATC CAAGAAAGTT TGGGTnnn	338
	(2) INFORMATION FOR SEQ ID NO: 760:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 760:	
40	CTCTATTATA TITAGAGTTA TAGCTATTGC aGTTGTTTAT TTATTGAAAA TAAATGTACT	60
	ATCATTAGET TTAGCAAGTG TATTAGGCAG TTTgGTATCt AGGCTACTAT TATCTATTAT	120
	TTTAAATTTA CCTGTGTGGG TAGTGTTGTT AAACGCGATT CCAGGCGTAA TATTCACTTT	180
45	AATTGTAGCT ATTCCTTTAT ATCTCACATT GAGAAAAAGA ATGGCAGTAT TACTAAGATA	240
	ATAAATCAAA ACACGGTCGT CACAATTACT GTTGGCGACC GTGTTTTACT AGCTATTTAT	300
	TGTTTTCAGT TTCTTTTGTA TCTAACAATT TCACTTTGTG ATTTTCCCAA TCAATTTCAT	360
50	ATGTTGaTTT AAATGTTCTA GTTTTAAAGT TTTTATAAT	399
	(2) INFORMATION FOR SEO ID NO: 761:	

5	(A) LENGTH: 639 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 761:	
10	GCATATRCAA AACAATAGCT GCTTTAGGTG CGGGGGCTAT TAGCGTTATT TCTGCACTAA	60
	CAGGAGGTTT AGTTGGCGCA GGTGTTGGTG GTTTCCTTGG ATCTATAGCT GCATCGAATA	120
	TTGATACTAG TAAGGGAATA TATATAAAAT TAAAAACTAA AAAGTATGCA GCCGGGGAAT	180
15	ACGTTCTGAC AGGAGAAAAA TGGGGATATC AGTAAGGGTG ATTTTATGGA TAGATTAAAA	240
	TATTCACTTA AAGTTGGAAT TTTAGCATTA TTATTATTTT GTACTTTAAA TTATTTAGTT	300
20	CCAATGCAAA GCAATGCTTT TTCAATAATT ATATATTCGG CAATTTTTGC TGTGTTACTT	360
20	ATGCTTTTAG TTTATATATT TTTAGGAATT TTAAAGAAAT GACATGAAAC AAATTAGCAT	420
	TGGCTATGAA GAAATCTATG GGGATAGAAT TTTTCATAGC CATTTTTTAA AAGAGCATGA	480
25	AGTAAAAAT TGGAAAACCG TCAATCAAAT AATTGAAAAA GAACACTTGG ACAAAAATGA	540
	ATATGNAAGC GGAACCGCCG TTATTTTCT TTTGCAGGAT CGTTAGATTA GATTNCGGTT	600
	GTATAGTATA ATGAAAAATA TTATAATAAA TTTATAAAA	639
30	(2) INFORMATION FOR SEQ ID NO: 762:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 852 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 762:	
40	NTGTTCGTTG TCTGGATCCA ACGTAAACAG TCGCTTCATC TAATACAATG ATAGGCGCAT	60
	CTTTTAATAT CATTCTTGCA ATAGTGACTC GTTGTTTTTC ACCACCAGAC AATTTATCTC	120
45	CCACTGTACC AACATTCGTA TCATATCCAT CTGGCAACTT TTCAATAAAT TCATGACATT	180
	GTGCTAACTT GGCAGCTTTT TCAACTGCCT CATCCGTAGC TTCTGGATTG CCAAGTTTAA	240
	TATTTTCTTT AAAAGTAAGA TTTAATAAAA AGTTATCTTG TCCAACAAAA CCAACTAAAT	300
50	CGTTAAGTTG TTTCGATTCA ATATCTTTTA TATTTATACC GCCAATCGTA ATTTCACCTG	360
	AAGTCACATC CCAGTATCGT GATATAAGCT TGGCAATGGT TGACTTACCG CTACCAGATG	420
<i>55</i>	CCCCGACGAT AGCTGTGAAA TTATTTTCTG GTACTGTAAA TGATAAATGC TTAAAGACCA	480

	GAGGCTTCTT AAATTTTGTT GACAATACTA ACTCTTCTAG ACTTAATATT TGATTCACTT	600
	CAGTTAATGC GTATTGTATA GACTTTAAAT GATTTACATA ATTAGTAAAA TTCTTAATCG	660
5	GTGCTACTAC ACCTAAAGAT AATACGATGC ATAGGAAAAA TTCCGCATAG TTTAATTGGT	720
	TGATAGATAT CAAATACATG CCGACCGGTA AAATCCCTAA AAATGTTGAA GGTAATACAC	780
10	TAGCTCCTAA ATTCATATAC CCCCATGTAT TTTTAAACCA ATTCAAAGTG TGAATCTTAT	840
10	AATTATCTAC TG	852
	(2) INFORMATION FOR SEQ ID NO: 763:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 852 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 763:	
25	CTCTTCATGC GTCATACGTT GTGTCGATTG ATCAGTTGTT TTGTCTAAAT CACTAGCTTT	60
25	AAATTTAGAT TGATTTGATT GACGTGTCGT AAATnGTTGT TCCTTTTGTT GGCGTTTGCC	120
	TTTTTTTCTT GATCTTATTA AAAATAAATT GATAACCCCA ACAATAATGA GCGCTAAAAT	180
30	AATGTAGCTA ATAATGAAGG TCGTAGTCAT TTAATGACCC CCTTAATTTT TATGGATTTT	240
	TACTTCAGCG TTCaTTCCaG GAACAACTTG TTTAGACGGT TCTGATTCTA GAGTGATTTT	300
	AACAGGTATT ACTTGAGAAA CTTTAGTGTA GTTACCATCA CTATTTGATG ATGGCATTAA	360
35	TGAAAAgtTG CAGCAGTTGC TTTTCCAATA CTATCAACTT TACCTTTAAT AGAAGCTTTT	420
	TGACCGTCAA TAGTCACATC AACATCTTTA CCTACTTCAA CATCTTTAAT ATCTTTTTCG	480
40	TCAATATTTG CTGTTACATA TAAATCATCT AAATTGTATG CATAAGCGAT TGGGTTACCA	540
	GCTTGCACCA TTGAACCITC CATACCATCT AATTTGGCAA TTGTACCTTT TTGAGGCATT	600
	TTAAGATCCA TATCTTTCGT TTCGCCATCT TGACCTTGTA CAGTAACAAT TGCTACTTTG	660
45	TCACCTTTAT CGAGTTTGTC ACCTTGTTTA ACATTAAGTG ATTTAATTTG TCCAGATGCA	720
	GGACTTGCTA TTTTAATTTG ATCGCCATTT ACTTTTGCAT TATCAGTTGT TACATAGCTT	780
	GTTGTTTTAT TCCAAAAATA AAAGCCAGCA ATCCCAATGG CTAAChGTAC AACAACCGTA	840
50	ATGACATTNA AT	852
	(2) INFORMATION FOR SEQ ID NO: 764:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 747 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 764:	
	ACATATTCGA CATTCATTTT AAATTGCATA TAACTACATT AACCATTCAT TGTGCAGCGC	60
10	CTGTTGTTTA GATGATCATT TATTGACTTT TTGCTCTTAT nCCAnGCAAT TTTTTGATTT	120
	ATTGCTTATA ATACATTTTA AGACAAATGT TTGTTTCAAC ATCGCATGCG ACATCATTAA	180
	YTATTCATTT AAATTTATCC AGTTTCTATT TGTCTGCAAT TGCTGAAAAT TAAAGGAGCT	240
15	TATTTTAAT AATGGAACAA ATTATCACTG AATTTATTAG CCGTTTTGGG TATGCAGCCA	300
	TTTTTATATT AATTTKATKA GAAAATGTAC TACCTATCGT ACCATCGGGA AATTATTCTG	360
	ACATTTGCTG GTCTTATGTC TGTTAAATCA CATTTATCAA TTTTAACTTT ATTTATTATT	420
20	GCAACTATCG CATCGTTTAT AGGGCTGTTA ATTTTATATT ATATCTGCCG TTTGATTTCA	480
	GAAGAACGTC TATATCGTTT TATTGATCGA CACGGTAAGT GGATTAAATT GAAAAGTAAG	540
25	GATTTAAAGC GAGCAAATGA TTGGTTTAAA AAGTATGGCG TATGGGCTGT ATTKATCTGT	600
	CGTTTCATAC CTGTATTACG TGTALTGATT ACCATTCCAG CTGGTGkaAA CCGCATGAAT	660
	GTTGTGACAT TEACCGTTAT TTCATTAATA GGTACTACAA TCTGGAATTT CGGTTTAATT	720
30	TTACTAGGAC GCACTTTGAG CGATAGC	747
	(2) INFORMATION FOR SEQ ID NO: 765:	-
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 820 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 765:	
	TTTACCTTTT AACCAATCAT GCATTAATGC AATGTGTACT GTCTTAACAA ATGTTGCATA	60
45	TECATOTTCT GCACTCCACT TTTTCAATTC CTGTTGATTA ATGGCATGTT TTTCTCCATT	120
	TTCCAACATA TTGACATACA ATTTATAATG TTTTTCAACT GCCTGAATAA AAGCGAGTTG	180
	ATTTTTATTT AAATGTGATT TTAACTTTTC TAAATCTGAA TTAATAAAGT CTTCTATAGT	240
50	CGAATAAGAC ATATCTTGGT ATTCAACTAC TGCATTAATT TCATCTAATA ATTGCGATTG	300
	TGATTTTAGC GTTATATAAC TCTCGTCTCC ATAAGATATT TCTGTAGTAG CTGCTGTAGT	360
	AGGATTTGGA GAACTGACTA AAATATGCTC GCCTAATAAT GCATTTATCa AACTACTTTT	420
<i>55</i>		

	TGTTTCGTGG ATATCTTGCT TTGTACGCTT GAACAAAGGC ACATCCGAAA TTATATCAAG	540
	CGCTTTTTGA ATATCTATAG ACATATTTGT TGTAGCTGTA TTTTGATTTA GCTGCTGATT	600
5	ATCACGATTA TCCTGAGCAT TATCAGTAGC CACTTGATAT GTTGTCTCTT GTCGACCTAT	660
	TAATTTATCT AGAGATTCAT CTAAATGAAT ATAGTAGTGA CGATAATTCT TAGTCGTCAA	720
	TGACTGACGC AGCTCATTTA ATTCTGTATA ACGTTGATAT TCTTTTAAAT CATCACTTTC	780
	TTCTGTTGGn AATTCATCTG CCTGCACATT TTCTATnATT	820
••	(2) INFORMATION FOR SEQ ID NO: 766:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 672 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 766:	
	TCAACATGAC ATTAATTTAA TAGCGATGCA TACAAATTTA GATGTAAATC CGTATGGTGT	60
25	CAATATGATG TTGGCGAAGG CGATGGGTTT GAAGAACATT TCAATAATAA ATAATCAACA	120
	AGATGTATAC TATAAAGTTC AAACATATAT ACCTAAGGAT AATGTTGGAC CATTTAAAGA	180
30	TAAGCTTAGT GAAAATGGAT TAGCGCAAGA AGGTAATTAT GAATATTGTT TCTTTGAAAG	240
	TGAAGGAAGA GGGCAATTCA AACCAGTTGG TGAAGCTAAT CCAACAATAG GACAAATTGA	300
	TAAAATTGAA TATGTAGATG AAGTTAAAAT TGAATTTATG ATAGATGCAT ATCAAAAGTC	360
35	AAGGGCTGAG CAATTAATTA AACAATACCA TCCATATGAA ACACCGGTAT TTGATTTTAT	420
	TGAGATAAAA CAAACATCCC TTTATGGACT TGGCGTTATG GCAGAAGTGG ATAATCAAAT	480
	GACATTGGAA GATTTCGCAG CTGATATTAA ATCTAAATTA AATATCCCAA GTGTCCGTTT	540
40	TGTTGGTGAK TCTAATCAGA AAATTAAACG TATTGCAATT ATTGGTGGTT CAGGTATTGG	600
	ATATGAAKAT CAAGCLGTCC AACAAGGCGC AGATGTCTGT TACGGTGATA TTAAACATCA	660
15	GATGCCTAGA TG	672
.•	(2) INFORMATION FOR SEQ ID NO: 767:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 403 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GAAAAAGTTA AACCTACTGT AACTACAACA AGCMAAGTTG AAGACMATCA CTCTACTAAA	60
_	GTTGTmAGTA CTGaCACAAC AAAAGATCAA ACTAAAACaC AAACTGCTCA TACAGTTAAA	120
5	ACAGCACAAA CTGCTCAAGA ACAAAATAAA GTTCAAACAC CTGTTAAAGA TGTTGCAACA	180
	GCGAAATCTG AAAGCAACAA TCAAGCTGTA AGTGATAATA AATCACAACA AACTAACAAA	240
10	GTTACAAAAC ATAACGAAAC GCCTAAACAA GCATCTAAAG CTAAAGAATT ACCAAAAACT	300
	GGTTTAACTT CAGTTGATAA CTTTATTAGC ACAGTtGCCT TCGCAACACT TGCCCTTTTA	360
	GGTTCATTAT CTTTATTACT TTTCAAAAGg AAGaaTCTAA ATA	403
15	(2) INFORMATION FOR SEQ ID NO: 768:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 483 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 768:	
	TTCAATGCTC GTTTTGCTTG CGTTAGTAAT TTCTAACATA TTCATTCACA TTTTGGAGCC	60
	TAAACTATCA ATCACCACTC AAATCATCAT CGTTTTGATT TTAATTGAAG CACTAATTGG	120
30	ACTGCGTTTC TTGAAAGCGT ACGATGTTAA GCGTGGCAAA GATAAGAAA ATAAGAAAAA	180
	TAGTAAGGAT TTCGTTAAAC TAAAATCAAT TTTAGTAGCA ATTTTATTTA CATCATTGGC	240
	GCTGACAGCA GGTACTGTAG CTGATATATA CGGTTTCACT GACTTAGGAA ATACTAGAAG	300
35	TGATTTAATC GTTTGGAGCA TAGGTGGTAT TATATTTGGC CTCGTATGTT ACACAATGGA	360
	AGATAAAAGA TAACGATAAG GAGCTGGCGA TTATAAAGCT AGCTCCTTTT TTAACTTATA	420
	TATGTAAAGA aCTaTCCTAA GGGKTTTTAA TCATATGTCA ATAATTTCTA TAATACATTA	480
40	TTA	483
	(2) INFORMATION FOR SEQ ID NO: 769:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 769:	
	ATTATATGTC TGATGTATTT CATGTCGTTA AAAATAAAGG TACGGAAGAT TTTAAAGAAG	60

	GGATGATGCT TGAAGGTGAA AAAATCAAAG CTTTTTATGA AGATATGCCA CCGTATCAGA	180
	CTGTCAAAAA AGGAACGATA CAAATTAAGC GTGATGGCAC ACCTATTATC CTATTAAATG	240
5	TCATTATACG CTmGTAGCTA CCCGCAAATC GGTACAATCG CAGTTATCAT TTACGAATTA	300
	GCACAAAACC GCAGGATCAC GTTGAATTCC ATTATAGTAT TTACGGCTGA AGACTGTAAG	360
10	ntanactggt aaccatatca tggatgattg atcatagatg	400
	(2) INFORMATION FOR SEQ ID NO: 770:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 750 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 770:	
	ATCTCTTCTA CITCTTTTAC AAATTGAGAA CGTCTTAAAA TGGCTTTCAC ACGGGCAACA	60
25	ACTTCTCTAG GTKAAAAAGG CTTAGTCATA TAGTCATCGG CACCTAATTC TAAACCTAAT	120
	ACCCGATCAA ATTCATCATT TTTCGCCGTT AACATTAATA TAGGGACTAA ATTTTTATTT	180
	GTTCTTACAG TCTTACATAC GTCAATGCCA TCTTTTTTAG GTAGCATAAC ATCTAAAATA	240
<i>30</i>	ATTARATCTG GCTGTTCACT TTCTACCTTT TCTAAAGCCT CATCACCATC AAATGCGACA	300
	ACAACTTCaT AACCAGCTGK TTCtArGyTA TATTTAAGTA ATGGTTaCGa TTGaATGtTC	360
	GTCATCTACT WCCaACACTT TTTGCGACAT GGLATGCCTC CCTAACLLAK AATTATATTT	420
35	MEATTATAACC GAACTATTTA TAAAAATAMC ATCCTACACA TTATCTTTAC ACATTTTTTA	480
	CATTACTTTA CATATAAATA AAATACTTCT TATATTTCCT TCTmTCATTT GCATGACTTA	540
	CTCTGGGACA ACGAAATAAA TTTTGTAAAA ATAGCATTTC TATCCCACTA CCTATGCATG	600
40	AGTTTTACTC ATTTATTCCT AAGCTTATGT ACATATTCGC TTTGTCTAAT GTGTAAGAAA	660
	CACTACATAA TCAATCATTG GTGACTCTTT ATTATTTCTA TCCTGTTGCC AACTTCAATT	720
45	CATTTAAAAA GGCGAACCTA GCAATTAAAG	750
	(2) INFORMATION FOR SEQ ID NO: 771:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1462 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ATTTAATTAT	TATTTTTCCA	AATCAATACG	ATATAATTTT	ATGTTTTTAT	CTTTTGGTGC	60
	TGaGGCAAAT	TGATAAGtCG	TTTTGCCTTT	TTCAATATAT	CCAAAATTAC	CAGCAACTTT	120
5	GCTATATTCC	GTATGTGTTA	CTGCTTTGCC	AACATAATTT	TTAACAGCTT	GATATGTTGG	180
	ACCATTAGCA	TCATTATACA	TCATTGAAAT	ATGAGTTACT	TTACCATTGT	TTTTCTTACC	240
10	ATCAGTAGTT	ACTAATAACA	TACCTTTTTT	AGTATGGAAT	TCGTAATAAT	GTTCAGTTCC	300
	ATCTTCATTG	TAAGAATACA	TCGGATTTTT	GTACTTAGTT	AAAACATCTT	TAATAGATTC	360
	GCCAATTTTC	ACATTTTCTA	ATGACTGATC	ACCCTTAATT	aattgtttaa	CAGTATCAAT	420
15	AGAGTTGCCA	CTTGCTGCTT	CGGCACTAGT	GTTCACTAAG	CCTACTCCCA	TTACAACAGA	480
	ACATGCAATT	ATACTTGCCG	TTAGTAGCTT	TTTCATAAGC	ACTCTCTCCT	TTTATTTATA	540
	TCGTCTTGTG	CTCACAACCA	TTATACAACA	ATCATTTCTA	AAACAACAGT	CATATTACAA	600
20	TTATATTACA	AATAATAATT	ACTACTTTTA	TATTTCACTT	ATCACTAAAA	ATTAAACATG	660
	CTTTTCATCG	TGATGTTTGT	TGATAAATGC	AGCTGTATCT	TCGACGAATC	TTTCTTGCTC	720
25	TTCAACAAAT	GGGAATGCAC	TTGATTCTTG	ATATACTTCA	AAGTCCGCAT	TTTGGATTAA	780
25	ATCAGCTACT	TCTTTAGCTT	CTAATCTTGT	TGTTCTTTCA	CCGAATTCTC	CTGCAATAAT	840
	TTTTGTCGGT	ACTACGACAT	TTCTATAAGT	TTGAGAAATA	TCAGCGTTTT	TGAATACCTC	900
30	TTTAACTGCT	TGAATTTCTT	CTTTAGTTGA	TATTTCATTT	GTATCTACGA	CATGTTTGAG	960
	GAATCGATTC	ATTTTTCTCG	GACGATAATA	CTTACGCTTA	TTTAAAAATT	TAWCYTGtTT	1020
	TTCaGGATCC	CaGTTtCGAA	TAATATGGGC	ATATTTTCTA	AATAAACGTT	CTTCCGGTAA	1080
35	TTCACCTTCA	ATAGATGTTG	GATTTACCAA	CGTAAGTGAT	GATGTAAATT	CAGGATAACG	1140
	TACTGAAATA	TCCGCACCAA	TGATTCCACC	CATTRCATGG	CATACAAATG	CAACTTCTTC	1200
	AATATATAAA	TATTTAAGTA	ATTCAACAAT	GTCATCAGAA	AAATCTTTTA	TTTCAATGTG	1260
40	ACGAGGTTTA	TCAGAATAGC	CATGTCCACG	TAAATCAATT	AACACAACTT	GAAATGATTT	1320
	TGCTAATTCT	GCTGCTAATT	TATTAAACAC	AGAATAATTA	TCAAGTACAG	TATGAATCAA	1380
45	TACGATAGGA	TAGCCTTCAC	CTAANGTACT	GTAATGTATC	GATGTTCCAT	CTTTTCTAGT	1440
	AAATAGATCC	ATAATTTTCT	CC				1462

(2) INFORMATION FOR SEQ ID NO: 772:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 704 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 772:	
_	ATTATTATAA GGAGTTATCT TACATGTTAA ATCTTGAAAA CAAAACATAT GTCATCATGG	6
5	GAATCGCTAA TAAGCGTAGT ATTGCTTTTG GTGTCGCTAA AGTTTTAGAT CAATTMGGTG	12
	CTAAATTAGT ATTTACTTAC CGTAAAGAAC GTAGCCGTAA AGAGCTTGAA AAATTATTAG	18
10	AACAATTAAA TCAACCAGAA GCGCACTTAT ATCAAATTGA TGTTCAAAGC GATGAAGAGG	24
	TTATTAATGG TTTTGAGCAA ATTGGTAAAG ATGTTGGCAA TATTGATGGT GTATATCATT	30
	CAATCGCATT TGCTAATATG GAAGACTTAC GCGGACGCTT TTCTGAAACT TCACGTGAAG	36
15	GCTTCTTGTT AGCTCAAGAC ATTAGTTCTT ACTCATTAAC AATTGTGGCT CATGAAGCTA	42
	AAAAATTAAT GCCAGAAGGT GGTAGCATTG TTGCAACAAC ATATTTAGGT GGCGAATTCG	48
•	CAGTTCAAAA CTATAATGTG ATGGGTGTTG CTAAAGCGAG CTTAGAAGCA AATGTTAAAT	54
20	ATTTAGCATT AGACTTAGGT CCAGATAATA TTCGCGTTAA TGCAATTTCA GCTAGTCCAA	60
	TCCGTACATT AAGTGCAAAA GGTGTGGGTG GTTTCAATAC AATTCTTAAA AGAAATCGAA	66
25	GAGCGTGCAC CTTTTAAAAC CGTAATGTTG ATCCAGTAGA AGTA	70
20	(2) INFORMATION FOR SEQ ID NO: 773:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 427 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 773:	
	GACCACGACA CCACAAGCTA TGAAGAATGC CYTTGTTAAG CCGCCTTTGA ATtGCATAGA	61
	GATGAAAATA CCAATATTAA TAAAGAAGTT ACAGAAAATA CCTTTTGTAA AAATATTCAA	120
40	CCATGTTGAA TCAACAGTCT TTTTCTGAAC TAAAGCTGTT AAAGCTTGTG TCATTTCAGG	180
	TGTCATGACA TGCGCAAATT TCATTAAGAA AAATAACACA AACCCACCTA AAATATTTCC	240
45	TAAGAAACAA TATAATAAAA TCCAAGTCAT CTTCTTAACA GAAACGACTT TATAATACCA	300
	GCCTACTGTA AAGTACATGA AGTTACTTGT TAATAATTCA GAGTTAGTTA ATACAACTAA	366
	AATCAAACCT AAACTAAACG CAATGGCTCC CATTAAATTG ATAAGTCCAT CTACGTGAGT	420
50	ACECGCA	42
	(2) INFORMATION FOR SEQ ID NO: 774:	
EE	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 774:	
	AGGTGAGCAT TATTAAATAT TGCCAAGAAA TCAAAACTAA AAACTATGCA AAAGATGTAG	60
10	ATATATTATT TATTCTTGGC GGTGATGGCA CGGTTAACGA ACTTATAAAC GGTGTTATGA	120
	CACATGACCT TCAACTCCCT ATTGGCATTT TACCAGGCGG TACTTTTAAT GATTTTACAA	180
	AAACGCTAAA TATAGCACCT GAATCATAAA CAAGCTAGTG AACAAATGGA TTTCTGCACA	240
15	AGTTGGTACA TACGATGTAA TTGAAAATGA AATGAATCAA TATGCACTCA ACTTTGTGGG	300
	CTTAGGTCTC ATGTTCAAAA CGCGGAAAAC GTACAAGAGG TTCAAAAGAT GTATTGGGTA	360
	AATGGAGTTA TATTGGGTCC ACCGTCCAAA ACnCGGCnAA	400
20	(2) INFORMATION FOR SEQ ID NO: 775:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 484 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 775:	
	AATTATTCCT CAATAGGAGC ATTACCCGCT CTCTCACCAA TTCCCAAAAA TGTAGTTTCT	60
	ATTTGCTTTG CACCATTTAA AATTGCAGCT AATGTATTTG CAGTAGCCAA CCCTAGATCG	120
35	TTATGACAAT GAGCAGAAAa AATTATGTTA GAATATTTTT TTACAAAGTA ATTAAAAATA	180
	TCTCCGTATT CTAATGGTGT CGAACATCCT ACAGTGTCCG CAAATGTAAC TGTTCTAACT	240
40	TGATATTTTG AAATAATTTC CATGTATTCT TTCAATTTTT CTCTAGAAGT CCTTGTTCCA	300
40	TCTTCAAAAC AAATATCTAC TCCTTTTTTA TCTTTCTT	360
	ATTITCTGAA TATAATATTI ATTIGAAAAA TTAAGCTTTT CTTTTATATG CAAGTCAGAT	420
45	ATTGGCAATA GTATTTLTAC CACTAAATTA TGAATTTLCA ATLTGACTAT TTTTGGTATG	480
	TCnT	484
	(2) INFORMATION FOR SEQ ID NO: 776:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 788 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 776:	•
	CGCAAGATGA AGTTAAAGAA CTTAATCGCT TATTAGGTAA AGTCATTCAT GCATTTGATG	60
5	AAACAAAGGA AAAATAATTA ACTTTTGTCA TGACAATTAA AGTAATGTTT AGAATTTATT	120
	AAGAATAGAA AAACAATTAG CACGCGTAAC TTGTTAGTNA AAAAACTGCT TGAAAGGTTT	180
10	CTTAGCCTAT CAAGCAGTTT TTTTATGCAT TATATTGAAT CATATTCCAT AAAGCACCTT	240
10	GATTAGCTAG TAATTGTTGA TAGTTTCCCT TTTCAACTAT TTTACCATTT ATCATCACAA	300
	TGATGGTCTC AAAACGTGAC AATAAAGTTA AATCGTGTGT AGCAACAATT AATGTTTCTG	360
15	CATGTGCTTC AATTAAATCC ATAACTTTTA AACTATTTTG TTTATCTAAT GCAGTTGTTG	420
	GTTCATCTAA AATCCATGTT GATGCAGTAT CTTTTAATAA CATCCTCGTA ATCGCTAAAC	480
	GCTGAATTTC TCCGCCAGAT AATGTATGAC CATCTAAGTC AATTTGACGT LCTAGTGCCA	540
20	AATGTTCTAA ATCTAATTGC TTAAATATTG CTTGCACCGC TTCATCTTTT TCATCGGTAA	600
	ATAAATTTTG ACGTATTGTA CCATCAAATA ATTGTTGAGA TTGTAGCAAG ACATTTAACG	6 60
	ATTCAAACTT ATCTTTGTcA TCTATTTCAA ACATATCCAT ATTTTCGAAA CGAACAGAGC	720
25	CACTATCTAA TTGATATAAC CCTGCCATAA TTTGTAGTAA TGTACTTTTT CCTGAACCAG	780
	AAGGACCC	788
	(2) INFORMATION FOR SEQ ID NO: 777:	
30		
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(A) LENGTH: 1145 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35 40	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	60
	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777:	60
	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777: TTACAAAAGA AATGCAACAA AATTTTGAA TCATTACATT TTTTTATAAA AATTTCACTT	
	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777: TTACAAAAGA AATGCAACAA AATTTTGAA TCATTACATT TTTTTATAAA AATTTCACTT TAGATTCACA ATAATTACTT ATTTTGTCAA TTTATTTAAT GTCAATATGT TGATTAATTA	120
40	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777: TTACAAAAGA AATGCAACAA AATTTTGAA TCATTACATT TTTTTATAAA AATTTCACTT TAGATTCACA ATAATTACTT ATTTTGTCAA TTTATTTAAT GTCAATATGT TGATTAATTA ATAGTGTTGT CTAATGTATA TAATATTTAG GTCATCGTTA TAGTCAACAA TAATAAGGTA	120 180
40	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777: TTACAAAAGA AATGCAACAA AATTTTTGAA TCATTACATT TTTTTATAAA AATTTCACTT TAGATTCACA ATAATTACTT ATTTTGTCAA TTTATTTAAT GTCAATATGT TGATTAATTA ATAGTGTTGT CTAATGTATA TAATATTTAG GTCATCGTTA TAGTCAACAA TAATAAGGTA TTTCGAGTTG AAATTTATCT TATTATTTTT CCACTTTTAC GTGCTATCCC ATTACACAAA	120 180 240
40	(A) LENGTH: 1145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 777: TTACAAAAGA AATGCAACAA AATTTTTGAA TCATTACATT TTTTTATAAA AATTTCACTT TAGATTCACA ATAATTACTT ATTTTGTCAA TTTATTTAAT GTCAATATGT TGATTAATTA ATAGTGTTGT CTAATGTATA TAATATTTAG GTCATCGTTA TAGTCAACAA TAATAAGGTA TTTCGAGTTG AAATTTATCT TATTATTTTT CCACTTTTAC GTGCTATCCC ATTACACAAA AACAAATAAG TAAAGATATT AAGTACAAAA AAGTGGAACA CCTTGTAGAT GCTCCACCTC	120 180 240 300

GATCCAAATA	ATGTTGTTGC	TTTATTTGCA	AATTCATTTT	TAAATTCATC	TAAAGTGCCC	600
CACTGCGcTT	TGATGTCATC	TATTACGCCA	CCTTTTTCTT	CAGAATTAGG	TGATAGTATT	660
TCCCAGAATA	ATGAATGGTT	AAAATGACCA	CCGCCATTAT	TACGGACTGA	CATCCTCATC	720
GCTTCCGGTA	CCTTGTCTAA	GTnAGCAATC	ATATCCGCTA	GTGATTGATG	CTCTAACTCT	780
GTTCCTTCAA	CTGTTGCGTT	TAATTTCGTC	ACGTACGTAT	TGTGATGTTT	GTCGTGATGA	840
AACTCCATTG	TTCTTTGATC	TATATATGGT	TCCAATGCAT	CATATGCATA	TGGTAAATTT	900
GGTAATTTAA	ATGCCATAAG	TATATTCCTC	CTTTTATGAA	TATACTTTTA	TAATAATTAA	960
TTTTGGGTGT	GTTTTGCAAT	AATTATTATT	TATTTGTTAT	ATCCAATTAT	ATAAAATTTA	1020
AATATTCGAA	ATTGATATAA	TATTTAATAT	TGAATGCAAA	AAGGCATTTA	ACTGCTTTTG	1080
TTTCCCGCTT	TTAAAGAGAA	TTAAAAAAAGA	CAACTTCCAT	TTTTCAATAA	GAAATTGCCT	1140
TTTCT	-					1145

(2) INFORMATION FOR SEQ ID NO: 778:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 902 base pairs (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 778:

60	CTCCACTTAC	CCTTTTTCTT	CGGAAGATTC	AATATACGGC	CAATATTATC	AAAAGAGGnC
120	ATTATCTTCA	GCATTAAATA	GGTGCTATCC	GTTATCAATT	AATGGTGTAT	TAAGCCCATC
180	TTTATTGAAT	CTTTACCATA	CCAATAATGT	CGCTTTTTCT	CAAAGCTATT	ATTGTGGTAT
240	CATTCTTATA	CTACAATTGC	AACAAGGTTA	AAATGGAATT	AAATCAACAT	GCACCTACTA
300	TCTAAATGGA	TACCTTCTTW	AAAGCTTTAA	TCGCCAATTT	TATAAGAAGG	AATTGTGGTA
360	ATCTATAAAG	TTAAACTTAT	AATATAATTG	TAGCTCTGCA	AGCGATATGA	GTTTCTATAA
420	AATTACTGCA	GTACGAAACT	TAGTAACTAT	TCCGTCTACA	CAGGTATCTG	TACACATATA
480	TGGATTTGAA	ATACTAACAC	TTCCCGATAA	ATAAGACCTT	AATATAAACT	AAATGCCATA
540	TAACGTTAAT	CAATAATAAA	ACGACACTAG	AGATGGATGA	CLATCCATGT	AATATCTTCG
600	AATAATGAAA	TCTCATCATT	ATCCAATTCG	ACCATCATAT	AATAGAAACC	ATGGATATTA
660	ATATTTTACA	TATCAATAAC	CTACCTATGC	AAATGATAAA	TAAGTACTAT	AATAATAATA
720	AATAACACCC	AAAAAGCTAA	GGTGGCCATA	CAATTTAAAC	GATCATTTTT	ACTTTAGGTG

	ATACTATAGA TAAACATCAT TAACCCTAAA GAAATTATTG ATACTCCCCA AAAAATAAAT	. 840
	CCTATTTTGT ATCGCTTTTT AATTGTTAAC AATAATGTAA CCAAAATAAC TGGGAAAAAT	900
5	AT	902
	(2) INFORMATION FOR SEQ ID NO: 779:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 779:	
	GGAATTAGTT TCCTAATGAT CAAACCATAA CCATTAGCTT TTAATGATGT TACGCCTTTA	60
20	AAGATTAGAG GATGATGACT AATAATAGTA TTATAACCTT TTTCGATTGC TTCATTTACT	120
	ACTTCCAACG TACAGTCTAA TGCTGTTAAA ACACCAGTAA CTTCAACATC TTCATCACCT	180
	ATTAACAATC CTACATTATC CCAAGATTCA GCAGTACTAA ATGGCACATG ATGATCTAAC	240
25	AATGTCATTA AATCAGCTAT TTTCATaCTA TAACACCCTT TCAATTACAG CAATTTCGTC	300
	aTTAATTTGa GCTAAACGTT GakGAkGTTG TTCAGTAWTG AGETTCGaTT TAALATGATA	. 360
	AAGTGCYTCL AACTCCCTTT GCCATTTCTT TATAAAATAT	400
30	(2) INFORMATION FOR SEQ ID NO: 780:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 557 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(wi) STOURNER PESSPECTON, STO ID NO. 200	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 780:	
	GTTCCTGTTT TAACATCAAT ATCTATCTTT TTAATATCTT GAACATAAAG CAGATTCAGT	60
	TGGCTAATAT TTGAATTTAT GTTAATCACT TTTTTCGTTC CATTTTTAAA ATGTACTGTG TAAGTnGCTT TTTTTGCATA TTTTAATTCA CGTTCCCCGA TACCTCTATC ATGCTTCAAT	120
45		180
	ACTGATTTAA CTTTTTTAGA GATATCTTTG TAGCCTACAC GTGGGTCACC TGTAAATTTT AAATCTGATA AAATTGGTGT TGATGTGCCA TTTACTGCAA TTGTGTATGG TACATATCTG	240
50		300
	TCTGCTTTCG CTTTAGTTCC TGTTTTAACA GTAATTTCAA TTCTCTTAAC ATCTTTCGCA	360
	TGAACTAAGT TTGCTGTGTA ATTTTTTGAA TTCAACTGTA AGATTCTTTT ACCACCATTT	420

	CTATCATGCT TCAGTACTGA TTTTATTTGA CTAGTTAAAT TTTTGTAATT TGTCCAAGGT	540
	TTAThTGAAA ATGAAAG	557
5	(2) INFORMATION FOR SEQ ID NO: 781:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 475 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 781:	
	TTCTGATAAC ACAACTTTCT TGGACCAAGT GACAATGGTA AAGTTGATAT TCTCAAAAAA	60
	TATATTTTAT TGAAAAGGTA ACTATATCGA CCGCTCTGTG CGACTTGCTG TGTAGAAACA	120
20	TCAAGCCCAG CTTGAAACTT CATATAAACT AATAACTTTT GATAAATGCT ATTCCCAATT	180
	TGTTCATACT GCTCCAAGTT ATCATTAATT CTAAATTTAA TACTTACTTC ATTTTTAACT	240
	GGAATAAAAT GTACATCACT CGCTTTCATT TCTATCGCTT TATTAATTAT TTCTTGAAAT	300
25	AGAATCTTCA AAAAAACACC TCCTACATAT AATCACGTAG GAGGTGTTTT TATTACTTCA	360
	ATTTAACCGT GTAAAAATGG ATTTAATTGT TCATCATCAA CCGTCGTATA TGGACCATGT	420
	CCAGGGAATA AAGGTAAATC GCCTTCTAAT TCAAATATTT TATCTTGAAT AGAAT	475
30	(2) INFORMATION FOR SEQ ID NO: 782:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 782:	
	ATGAATATCG GTGCAGGACG TATCGTTTAT CAAAGTTTAA CTCGAATCAA TAAATCAATT	60
	GAAGACGGTG ATTTCTTTGA AAATGATGTT TTAAATAATG CAATTGCACA CGTGAATTCA	120
45	CATGATTCAG CGTTACACAT CTTTGGTTTA TTGTCTGACG GTGGTGTACA CAGTCATTAC	180
	AAACATTTAT TTGCTTTGTT AGAACTTGCT AAAAAACAAG GNGTTGAAAA AGTTTACGTA	240
	CACGCATTTT TAGATGGCCG TGACGTAGAT CAAAAATCCG CTTTGAAATA CATCGAAGAG	300
50	ACTGAAGCTA AATCCATGAA TNAGGGCATN GGCCATTTGC ACCGGGGCCT GGCCGTAATA	360
	A CONTRACT COCCOCCANO COMPOCCANO COCCANONA	

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 810 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 783:	
10	GATTAATGTA CTCGTGTACA TAACGTTTGA AGTATGATAA ATAGATATAG AAATAAAGTC	60
	ATATGTGACA TCAATTAAAT GATGTTCAAA TGACAAGATA CAATAGAGGA ATGTTTGTAA	120
15	TAMAAACGCT TCATATAAAG GTCGAGTCAA TATATGATAC GACTTTATAT GAAGCGTTTT	180
	ATTTGCTATG AGCTAGTATA TTTTATAATA ATTTTTCTAT TTCTCTTTCG ATTTGAACAG	240
	GTTTTTTTT AGGTGCAAAT CGTTTAACAA CGTTACCYTC GCGATCCACT AAAAACTTAG	300
20	TGAAATTCCA TTTGATTTTC TCATTAAAGA ATCCGTGTTG TGCCGCAGTC AAATATCTAA	360
	ATAAAGGTAA TTGATGTTCC CCTTTTACGT CTATTTTTTG ATGCATAGGG AAGGTAACAC	420
25	CATAGTTTAA TTTACAGTTT TGAGCTGCTT CTTCGCCTGA ACCAGGTTCT TGGCCACCAA	480
25	ATTGATTACA AGGGAAACCT AGAATTACAA ACCCTTGATC TTTGTATTTC TCGTATAATG	540
	ATTGCAAACC TTCAAATTGT GAAGTAAAGC CACATTCGCT AGCTGTATTA ACAATTAGCA	600
30	TAACGTCACC CTTATATGCA TCTAATTTGT AAGTAACACC TTTATTTGTT TCTACTACAA	660
	AATCATAAAT TGTCTCCATT GTATCATCCT TTCGATTTAC TTAAAATGTA CCACAAAATC	720
	GTGTAALAGT CTKTACTALA ACTCTATGAT AGAATACTTT GAGTAGGATT TTATTAAGGA	780
35	GATGTATAAC ATGGnTCAGC AACAAATTCA	810
	(2) INFORMATION FOR SEQ ID NO: 784:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 788 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 784:	
	AAATTCATTG CAGAAAACAT AGATAAATAA ACAAATTGAC TTTAAACGAG CGTTGCAACA	60
50	TATCTCGAAT TGTAAAGGAG CTTGAAAATG AATAAAAATA TAGTCATTAA AAGCATGGCA	120
	GCATTAGCCA TTCTAACCTC AGTAACTGGA ATAAATGCTG CAGTCGTTGA AGAGACACAA	180
	CAAATAGCAA ATGCAGAGAA GAATGTTACG CAAGTTAAAG ATACAAATAT TTTTCCATAT	240

	ACCAATAAAC ATGTATCAAA AGATTATAAA GTTGGCGATA GAATTACTGC CCATCCAAAC	-360
	GGTGACAAAG GAAATGGTGG TATATATAAA ATTAAAAGCA TTTCTGATTA TCCGGGTGAT	420
5	GAAGACATCT CTGTCATGAA TATTGAAGAA CAAGCAGTCG AACGTGGACC AAAAGGCTTT	480
	AATTITAATG AAAATGTCCA AGCATTCAAT TTTGCGAAAG ATGCTAAAGT TGATGACAAA	540
10	ATTAAAGTTA TTGGTTACCC ATTACCTGCT CAAAATAGTT TTAAACAGTT TGAATCTACA	600
	GGAACTATAA AAAGAATSAA AGACAATATT TTAAATTTTG GATGCCATAC ATTGGAACCC	660
	GGGGAATTCA GGGATCACCA GTTCTAAATT CTAACAATGA GGTCATAGGT GTGGTGGTAT	720
15	GGGCGGGTAT TGGGAAAAAT TGGGTTCTGG AATAATAATG GGTGGCCGTA TACTTTACGC	780
	CTCCAnat	788
. •	(2) INFORMATION FOR SEQ ID NO: 785:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1023 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 785:	
30	CAATATTTTA GAAACAATAA TTAACTTGCG ATGAACAAAC TATTAACAAT AATCTTGAGT	60
	ATTATATTA TCTTAATTAA TAATATATTT ATTTAAGATT ATGTTACTTC CAACTTTCAA	120
	AGTAGAAAAA CGGTATAATT TGTTGATGGG TGTTTATTGA TAAACTGCAA AAAATACAGC	180
35	CTACAACCAC ATAGATTGTA GACTATATTT AAAATAATAG GTATTTATCA TATCTCGTAA	240
	ACTTAGTGCC AATTTTATA CTCGTGGTGC TGGTAAGCTA CCCTTAAATT CAGGAACGTA	300
40	GTGTGTaGGG CTATAACTTG GAACAGCATA TTGATAATTT ACATTTTTGA TATTTAATGA	360
40	TGGTTTCCCA ATTTTATAAC CATTTGATTG TGAAAATGAG AAATAKTTCT TCACACCTTT	420
	AACTACTTTA TAAGAATAGA AGTATTTATA GTCATATGCT TTATTTACTT TAGCATTTTG	480
45	ATGTGTTGCT GTTGTGTAT TTTGGAAACT TGGTACATGC ATACGATGTG AATTGTGACC	540
	ATATGGTGGA ATTACCTTGA AACTATTTAT TTGTGGCACA ACACAAAAGT GATTAATTTT	600
	AATGCTAGCA TGCCCTGGTG TAACAAATTT ATGCGCGTGA TATCCAGGAA CTGCAAAATG	660
50	ATGCTTGATA ATTAAAGATT GAGATGGATG TGTATATCTA GGCGATTCTG ATGGTTTAAC	720
•	ARABAGTGT TTATTABTAG ARTCCTTTGC ATGATTTACA TGTTTATGTA CATGTGTTCA	791

1666

TITGTATGAA GTAATAACTT TCTTGTAGTG GGTTTGCGTA GTAATGAAGT GGTGGTTTAC

55

	TTGTTGTGAA GCTGGATTGT TTGTTGCTAC ATTCACGCGA TTATTGATTT CTTTGTACTC	960
	TGGCACAATG TTTCCTAACT TTGATTCTGG NACGACAAAG TTTTTATCTA CAATTTTACT	1020
5	AGC	1023
	(2) INFORMATION FOR SEQ ID NO: 786:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 786:	
	TCAAGTTTAT TCGCTTGTTG GAAAGCTTTA ACTTGATTTT CTAAAGCTTT ATCAAATTGC	60
20	GTTGATTCAT TATCAACTTT ATAACCTAAA GCTGATAAAC CAATTTTAAT AGTTTTAATA	120
• •	TTTTTATCAT CGTCTCCAAC TTTAAATGTT TTCGTATTAG GAATGACATT TAAAGATTGA	. 180
	TATTTAGGTG TGTCAATAGT AACGTCTGGT TTAATGCCTT TACCGTGAAT ATAATGACCA	240
25	TCTGGCGTTA ACCATTTCAT TTCAGTATAT TTTAACAATG AACCATCCTT AAACTCTCTT	300
	GTAGTTTGTA CGACACCTTT GCCGAATGTT TTTGACCCAT AAACTTTAGC TTTATTATAG	360
30	TCTTTTAGCG CACCAGTAAA CACTTCAGAA GCGCTAGCTG AACCTTCATT CACTAAGATG	420
	GATATATCCA TGTCTTTCGC TTCTTTTAAC GCATCATTAG AAGTLGAATT GCTCAGTACT	480
	TTACCTT	487
35	(2) INFORMATION FOR SEQ ID NO: 787:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 803 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 787:	
	GNAAACNATA TTTANAATTA AGTGTTCGAT TTGCAGTAAA TTCATACAGA AAAGCTAAAA	60
	TTAAAATGAT ACAGTGGAAT AATGTCACAT TCTCCATAAA TAATTGACCG AAGAAGCATA	120
50	AAACATAGAA TAGTACAGTA ACACTTACCG GCTGCTTTTC TTTATATATA ATTGCATTAA	180
	TACAATAATA AATAATAAAG AGTGAAATTA GTGTTGATGT CGCATAATTA TAAAATCCTG	240
	CARACCRECC ATATETATET CONTARATE CACTTOCTAR RATTERACTOR RANCART RANCART	200

	TGCCCATACT AATGAGGCCA TATGAAAGCC AACGTAACCA GCTTACATGT ACAGCTATAA	420
	TTTCAAAGAT ATTTCCGATA TAGCGACCAT TAAGTGATGC AAATCCTACT TTTAAAATAT	480
5	CAGTATTATA ATTGCTAAAC CATTGTAAAT CATCGTGCAT GAGTGGTAGT AAGATACCCA	540
	TAAAAGTATA AAACAATAAT ATCGCAATTA ATATCAAAGT TGTCTTGTGT AATTGAATTG	600
	TTTTCACTTT GCTAATCCTC AAATCTAGTT AAATTTTCCT CAACTTGTAG GTCGAAAAAT	
10	TAATTCAATA TTTTTAATGT ATTTCTAATT TTCACCTATG CATGTTTCCT CAATCAAATT	720
	AGATAAACAA GGTATTTAAT ATTACTTTCA ACAATTTATC TAAATCGCCC CTCGTCTTTT	780
15	TCTATGaCGA ATGATTACAC TTG	803
	(2) INFORMATION FOR SEQ ID NO: 788:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) TopoLogi: Timeal	
?5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 788:	
	GAAAAGTTGT ATTATGAATA AAGTTAATCA AGGTGCTCAG GAAGAGGCAA TGGAAGAGTT	·60
30	ATTAGTGACT TTTCAAAAAT TGATTAAAGA CTAAAGGAGT TTAAGATGAT ACATCAAAAT	120
	ACGATTTACA CAGCGGGAAT TGAAACAGAA GAACAAGTAA GTCAATTGAC AGAACGCATT	180
	TCAAATATGA TAGGTGTTCA TCAAGTGAAT ATTAATATAA TAGATGGTCA AGTAACTGTA	240
35	TCGTATGAGA CACCAGCAAA TTTGAATAGT ATTGAAAAAG AAATCTATGA TGAAGGATAC	300
	AAAATTGTAT TTTAGGGTAT AATGTAGAGT GCGCTATAGA TTTTAATTTT GAAAATAAAT	360
	TAAAAATITT GTAAATGATG TAGTAAAGGT ATGTCGAATA	400
10	(2) INFORMATION FOR SEQ ID NO: 789:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 762 base pairs(B) TYPE: nucleic acid	
<i>15</i>	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 789:	
	GTTTAAAGAT GGAGAGATTA TTGATTTTTC AGCTGGAAAA GGTGAAGCGG TATTGAAAGA	60
	TTTAATCAAT ACTGATGAAG GTTCAAGAAG ATTAGGTGAA GTAGCATTAG TACCTGATGA	120

	ATGTCATTTA GCGATTGGAT CTGCTTACGC CTTTAATATT CAAGGTGGAA CGGAAATGAC	240
	TGTTGAGGAA AAGATTGCAA GCGGATTAAA TGATTCAAAT GTACATGTCG ATTTCATGAT	300
5	TGGTAGTAGT GATTTGACTA TTTATGGCAT ATTCGAAGAT GGTTCAAAAG AACTAGTATT	360
	TGAAAATGGA AATTGGGCAT CAACATTTTA ATAAATGTTA TTTTGAGGTG CTGAGTAGGA	420
10	AATGAAACAT GTATTTAAAG GTCAAATACG TGATTAAAGT ATAGATTGGG AGATAAAATA	480
	ATGACAAATC AGGACAGACC AATGAAATCT ATGTCAGAAT CAAAATGTTA TAAAAATAGA	540
	CAAGTTTTCC CTCAAGATAC GAATCACCAT CATACAATGT TTGGTGGTAC ATTGATGGCT	600
15	AATATTGATG AAATTGCAGC AATCACAGCT ATGAAACATG CTGGTGCGCA AGTAGTTACC	660
	GCATCTACAG ACTCAGTAGA TTTCTTAAAG CCGATTAAAA CAGGGGACAT ATTACAATAC	720
	GTAGCGATGG TTTCATACGC TGGGACTAGT TCAATGGAAG TG	762
20	(2) INFORMATION FOR SEQ ID NO: 790:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>30</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790:	
<i>30</i>		60
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790:	60 120
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790: TTTAATTTTA TCTTTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790: TTTAATTTTA TCTTTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT TATTTCGTCA CATTGATTTG CAATAGCCAT ATCATGTGTT GCTAAAATCA GCACTTTATT	120
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790: TTTAATTTTA TCTTTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT TATTTCGTCA CATTGATTTG CAATAGCCAT ATCATGTGTT GCTAAAATCA GCACTTTATT TTCATCGACC AAACCAAATA ATGATTGAAT AATCATCTGT CCTGTTTTAG GATCTAACGC	120 180
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790: TTTAATTTTA TCTTTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT TATTTCGTCA CATTGATTTG CAATAGCCAT ATCATGTGTT GCTAAAATCA GCACTTTATT TTCATCGACC AAACCAAATA ATGATTGAAT AATCATCTGT CCTGTTTTAG GATCTAACGC ACCCGTTGGT TCATCAGCTA ACATAACAAT CGGATCTTTT AACATCATTC TAATTAAAGC	120 180 240
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790: TTTAATTTA TCTTTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT TATTTCGTCA CATTGATTTG CAATAGCCAT ATCATGTGTT GCTAAAATCA GCACTTTATT TTCATCGACC AAACCAAATA ATGATTGAAT AATCATCTGT CCTGTTTTAG GATCTAACGC ACCCGTTGGT TCATCAGCTA ACATAACAAT CGGATCTTTT AACATCATTC TAATTAAAGC GACACGTTGT TGTTCACCTC CACTTAGCGT ATGAACTTTT CTTTTTAAAC TGTTTGACAG	120 180 240 300
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790: TTTAATTTA TCTTTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT TATTTCGTCA CATTGATTTG CAATAGCCAT ATCATGTGTT GCTAAAATCA GCACTTTATT TTCATCGACC AAACCAAATA ATGATTGAAT AATCATCTGT CCTGTTTTAG GATCTAACGC ACCCGTTGGT TCATCAGCTA ACATAACAAT CGGATCTTTT AACATCATTC TAATTAAAGC GACACGTTGT TGTTCACCTC CACTTAGCGT ATGAACTTTT CTTTTTTAAC TGTTTGACAG ACCAAACTGT TCLATATAAC GLATCTLLAT TTGTTCTTTT TCTTTCTTAC TTATTTTTTT	120 180 240 300 360
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 790: TTTAATTTA TCTTTTGGAT ATCACATAGA TGCTACTTTT CTATACTGTT CTAAATCTAT TATTTCGTCA CATTGATTTG CAATAGCCAT ATCATGTGTT GCTAAAATCA GCACTTTATT TTCATCGACC AAACCAAATA ATGATTGAAT AATCATCTGT CCTGTTTTAG GATCTAACGC ACCCGTTGGT TCATCAGCTA ACATAACAAT CGGATCTTTT AACATCATTC TAATTAAAGC GACACGTTGT TGTTCACCTC CACTTAGCGT ATGAACTTTT CTTTTTAAAC TGTTTGACAG ACCAAACTGT TCLATATAAC GLATCTLLAT TTGTTCTTTT TCTTTCTTAC TTATTTTTT ATATGCTAAT CCAATATCTA AATTTTCATT TACTGTCAAA	120 180 240 300 360

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 791:

	AACGTAAAGC GGAAGTTGGG ATGGTTGAAG ATGCTGAATT TCATGCGCAA CTACATCGTT	120
	ATAATGCTTT TCTAGAGCAA CATCAAGATG ATAAAGTGTT GTATTTMGAA ATTGGAATTG	180
5	GTTATACTAC ACCACATTT GTGAAGCATC CTTTTCAGCG TTGACACGTA AAAATGAAAA	240
	TGCCCTTTAT ATGACGATGA ATAAAAAGGC TTCGCATTCC GAATTCAATT CAGGACGTAC	300
	CATACTITAA CIGAGATICI CAACTIGITC AGCAGACTCC GGACGCAGCA CACGAAATAC	360
10	ACATGGGGGC AGAGTNACTT ATGGACCGTT GAATGNGATA	400
	(2) INFORMATION FOR SEQ ID NO: 792:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 678 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 792:	
	GTTCCGTTTG ATACAGAGAA GCGAATGTAA GCATAATCTT TAACAGTATC GTATGATALA	60
?5	ALTTAATTGG CAACTTTTTG TCACCTTCAT AAACTTCAAA TTTTCTCCAA AATTGACCTG	120
	ATTGTAATCC TAATTCAATT TCTGGTTTTG AATCAGTGAA AATAACTCTA GCAGGTTTAA	180
30	CAGAACTTGC ATAATGATAA AACTGTTGAG TTCCATCTTT CTTTTTCATT TCAAAATCAA	240
	TTGGACGAGA GTTTGGTGCG CTATGATCTT TGTCTTTTAT TGCAGGGTTT TTAATCGCTT	300
	CTCTAAGTTC CTGaTTCAAA ATAGGATATG TATTGTTAGT GGCYTTTGCT GCTGGTTTAA	360
35	CTTCTTTTGT TTCCTTAGGG GCTTTAACTT CTTTAACTTC TTTAGCTTCT TTTGTTTCAG	420
	AAGTAGGGGC CTCAACTTCT TTATTAGATA CTGAGACAGC ATTAGCTACT GGTTTAGTTT	480
	CTGGAGCITT TTCAGATGIT GTTGTTGGAC TTGCAACTGC TTCAGTTTTT GGTTGTGCTT	540
10	CTGTATTTGT ACCACCTGTT TCTTCAGCTG CTGCTTGTGT TCGCCATTTG ACATTAATAA	600
	TAAAAGTGTA CTAATTGCTA CAGATGCAAC GCCTAGTGAT GACTTTCTAA TTGAATAAAA	660
15	TGATTTAAAT TCTTTTTG	678
	(2) INFORMATION FOR SEQ ID NO: 793:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

1670

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	ACTGGCGGAT CCACGATGGC ATGTGTTAGT GAAGCAATTC ATTTATTACC ATATAATGTA	60
	TTCTTCGTAC CAGCCAGAGG TGGACTAGGC GAAANTGTTG TCTTTCAGGC AAACACAATT	120
· <i>5</i>	GCAGCCAGTA TGGCACAACA AGCTGGCGGT TATTATACGA CGATGTATGT ACCTGGATAA	180
	TGTCAGTGAA ACAACATATA ATACATTGTT GTTANGAGCC ATCAGTCATT AAACACTTTA	240
	GGACAAAATT AAACCAAGCA AACGTTAATA TTACACGGGC CTTTGGTGAT GCGCTGGAAG	300
10	ATRIGGCGCCT CGGACGTCCA ATCACCTGGA AAAGGTCCTT GGAACCACTT C	351
	(2) INFORMATION FOR SEQ ID NO: 794:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 794:	
	GGGCGAGGCG TTCGCGCACC GGCCGAGCAG CAAATAGGCC GGGATGTCGC GTCTTGCTGC	60
25	AGGTCCGAAA AATATCAACT TGAAGAGGTA ACACCGnTAG ATATGTTTCC ACAAACAACA	120
	CATGTTGAGA CAGTGGCATT ATTCAATTTG AAATAGCGCA CATGATTTGA GATAAAATTT	180
30	CGCCTTAATA AGTGAAGAAA GAAGTCGTAT ATTAAAATTT TATTACAGCC AATTTACTTT	240
	CTTGATATGA ACTTTTTAAA TTAAATGTGA CATTGTATAC TATATTTAAA GAAGAATAAG	300
	AATGTCATGA TCGGGAGGGT TGGTAATGCA TAAAATTGAT TTAACGACAA ATAATTTTCA	360
- 35	AATGCGAGGT TTATTATCCT GGCAACCTGG TTATTGCGTT	400
	(2) INFORMATION FOR SEQ ID NO: 795:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 407 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 795:	
	ATGTTCCAGG AACGTATTTT TACAACCGAC AATTAGCATA TGTCATAATG AGTTTTATAA	60
50	TTGTATTTTT TATTGCATTT TTAATGAATG TTAAATTACT GAGTAATATT AAAGTGCAAA	120
	AAGGTATGAT TATAACTATC GTCTCACTAT TATTACTGAC GTTAGTAATA GGTAAAGATA	180
	TTAATGGTTC TAAAAGTTGG ATAAACTTAG GATTTATGAA CTTACAGGCA TCTGAGTTAT	240

	TAAGTAAACC AAAATTAATt TTAAGTCCTA TTGTATTAGC ATTAGGTTGT ACGTTTTTAG	360
	TTTTCCTACA AAAAGACGTG GGCAACATTA CTAATATTAA TMATMTT	407
5	(2) INFORMATION FOR SEQ ID NO: 796:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1053 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 796:	
	CAGTAGGTAC ACTTGCAGCA TTTGTTGGAT ACTTAGAGTT ATTGTTCGGG CCTTTACGTC	60
	GTTTAGTCGC ATCATTTACA ACTTTAACGC AAAGTTTTGC TTCAATGGAC CGTGTATTCC	120
20	AATTAATTGA TGAAGATTAT GACATCAAAA ATGGTGTTGG TGCTCAACCT ATTGAAATTA	180
	AACAAGGTCG TATTGATATT GATCATGTTA GTTTTCAATA TAACGATAAC GAAGCTCCAA	240
25	TTTTAAAAGA TATTAATTTG AGTATTGAAA AAGGAGAAAC AGTTGCTTTC GTAGGTATGA	300
	GTGGTGGTGG TAAATCAACA TTAATTAACT TAATACCGAG ATTTTACGAT GTAACTTCTG	360
	GGCAAATTTT AATAGATGGT CACAACmTTA AAGATTTTTT AACGGGAAGT TTAAGAAATC	420
30	AAATAGGATT GGTGCAaCAG GATAATATTT TATTCTCTGA TACAGTTAAG GAAAATATTT	480
	TaCTTGGTCg TCCaACAGCa ACAGATGAAG AAGTAGTTGA AGCGGCGAAA ATGGCTAATG	540
	CACATGACTT TATTATGAAC TTGCCACAGG GATATGACAC TGAAGTAGGT GAACGAGGTG	600
35	TTAAATTATC AGGTGGTCAA AAACAAAGAT TATCGATTGC TAGAATATIT TTAAATAATC	660
	CGCCAATTCT TATCTTGGAT GAAGCAACAA GTGCACTTGA TTTAGAAAGT GAATCCATTA	720
40	TTCAAGAAGC ATTAGATGTG TTGAGTAAAG ATCGAACGAC ACTTATCGTA GCGCATCGCT	780
	TGTCCACTAT TACACATGCT GACAAAATTG TCGTAATTGA AAATGGACAT ATTGTTGAAA	840
	CAGGTACGCA TCGTGAATTG ATTGCAAAAC AAGGTGCTTA CGAGCATTTA TATAGCATTC	900
45	AAAACTTATA AAGTATTAGT TGTTTGACTT CAGTACAATC TTGAAGAGAA AATTTGTAAC	960
	AGGATGGTGG GGTCATAACA TAGAAAAAGC AGTAAGAGAT TTTCTTAGTT GAAAATAATC	1020
	TTnCTGCTTT TTTAAATTTA ATTTCGnGAT TCA	1053
50	(2) INFORMATION FOR SEQ ID NO: 797:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 544 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>	10) Oliganianian additi	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 797:	
	AAGAGTGACT CCTGAAGTGA AAGAAGGGGA CCGTGTCGTG TTCCAACAAT ATGCTGGTAC	60
5	AGAAGTTAAA CGAGATAATG AAACATATCT GGTATTAAAT GAAGAAGATA TTTTAGCAGT	120
	TATTGAATAA TACAGAACTT AATTCATAAA TAAATTAAAT	180
10	CTAAACAAAT GGAGGTTTAT CATTTATGGT TAAACAATTG AAATTCTCTG AAGATGCACG	240
	TCAAGCAATG TTACGTGGTG TTGACCAACT TGCAAATGCA GTTAAAGTAA CGATTGGTCC	300
	TAAAGGACGT AATGTTGTAT TAGATAAAGA GTTTACAGCA CCTTTAATTA CGAATGATGG	360
15	TGTGACGATT GCYAAAGAAA TCGAATTAGA AGATCCATAT GAAAATATGG GGGCTAAACT	420
	AGTTCAAGAA GTCGCAAATA AGACAAATGA AATTGCTGGT GACGGTACGA CAACTGCAAC	480
	AGTATTAGCT CAAGCAATGA TTCAAGAAGG CTTGAAAAAT GTTACAAGTG GTGCGAACCC	540
20	AGTT	544
	(2) INFORMATION FOR SEQ ID NO: 798:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 372 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 798:	
	CAATTGCATA GATATTGCTG ATAGACGTAC GGCTTTGTTT ATCAACTTCT AATAATCCAC	60
35	GGTCAGCGAA TTTAACACCT AATTTCGTCT GTGTTTGGAC GACGACCTAC AGTTACTAAT	120
	ACATAATCAG CTTCGATTGT TTTCTCTTCG CCTTTAGCTT CATAAGTAAC TTTAACTCCG	180
	TTATCTGTTT CTTCAGCTGA TTTAGCCATA GCTTCAGTAA CGATTTCAAC ACCTTTTCT	240
40	TICATACCIT TITTAACAGG TIGTGTGCAT TIGTTTTTC GAGGCCACCT AAGATATCTT	300
	TAGCACCTTC AAGGGATGGG GTACTTTCTG NAACCAAAGT TAGCAAATGC TGTACCTAAT	360
45	nCTGGTCCAA TG	372
	(2) INFORMATION FOR SEQ ID NO: 799:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

-	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 799:	
5	AAACGACATT TGTTTAATTG GAAGAATTAG CACCATTTTT TGAGGCGGGT ATAGALTCAT	60
3	TTAAAATCGA TGGTATTCTA CAAACGGAAG AATATATTAA TGTGGTAACG GAACAGTATC	120
	GTCAAGCGAT AGATTTGTAC AATGAAGATC CTGAAATCTA TGAAGATGAG AAATTTATGT	180
10	TGATGGATCC AATTGAAGAA ATTCAACCTG ATCATCGACC ATTTGACGAA GGTTTCTTAT	240
	ATAAACAAAC AGTATATTAA GGAGGTTAAT CATGAAGACA ATAGAAGAGA TTAAATCAAC	300
	TCCTAAAACA GTTATGAAGA AACCAGAATT ATTAGCACCT GCTGGAAACT TAGAAAAGTT	360
15	AAAAATAGCA GTACATTATG GCGCTGATGC CGTATTTTTA GGTGGTCAAG AATATGGATT	420
	ACGTTCAAAT GCTGATAATT TCACGATGGA AGAAATAGCT GAAGGTGTTG AATTTGCGAA	480
	CCGTTACGGT GCCAAAATTT ATGTTACGAC AAATATTATT GCACATGATG AGAATATTGA	540
20	AGGTCTAGAA TCATATTTGC GTAATTTGGA AAAGACTGGT GCGACAGGTA TCATTGTTGC	600
	AGATCCTTTA ATTATCGAAA CATGTAAAGA AGTTGCGCCA AAACTTGAAA TTCATTTATC	660
25	TACTCAACAA TCACTTTCTA ATTACAAAGC TGTAGAATAT TGGAAAGAAG AAGGATTGGA	720
	TCGTGTTGTA TTAGCACGTG AGACCGGCGC GATGGAAATG CGTGAAATGA AGGAAAAAGT	780
	AGATATTGAA ATCGAAGCAT TTATTCATGG TGCTATGTGT ATCGCCTATT CAGGTAGATG	840
30	TACATTAAGT AATCATATGA CTGCAAGGGA TTCCAACAGA GGCGGTTGCT GTCAAAGTTG	900
	CCGTTGGGAT TATGAATTAT TAGAAGTTGA TGATAATGGT GAACTTGATG TTTTTTATAA	960
	TCAAGGTGAA GTTACACCGT TTGCGATGAG TCCTAAAGAT TTAAAATTAA TCGAATCAAT	1020
35	TCCTCAAATG ATGGATATTG GTGTGGACTC ATTAAAAATT GAAGGACGTA TGAAGTCAAT	1080
	TCATTATATT GCAACAGTTG TCTCAGTATA TCGTAAAGTC ATTGATGCGT ATGCGGCAGA	1140
	TCCTGACACT TTAAGATTAA TCCGGAATGG TTAATAGAGT TA	1182
40	(2) INFORMATION FOR SEQ ID NO: 800:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 939 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 800:

GTATTCTTCC AATAACACCT TTCATTTGGA AACCGTTTAG AAAGAATACA GTTACTTCAG 60

TTTGGTTTGC TTTAAAATTC TCTAGTGCTT TGTCTTGGAT GTTTTCGLTG CAATCATCTG 120

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	TITTCTTTAT CTAACCAATG AACACTCATT TTATTCTTGA ACCATGTCAT TTGTCGTTTT	240
	GCATATTGGC GTGAATGTTG CTTTAAATCA TTGACAGCAT CTTCATAAAT CATTTGTCCG	300
5	TTAATCACAG GTATTAATTC TTTATATCCA ATAGCTTGCA TACTTTGGCA AGATTCATAG	360
	CCTTGTTCAA CAAGTTGTTG CACTTCTCTA AATAATCCGT GATCCAACAT AATATCAACA	420
10	CGTTTATTTA TTCTTGAATA TAATGTTTTA CGCGACATTT CAATCCCTAA TAATAATGTA	480
10	TCATAATTTT CAGTAAATTG TTGCACTTTC TTGCGATTAC TCAAAAGTTT TTTTGTTTTT	540
	AAATAATATT CAATAGCGCG CAACACTCTT TGGCGGTTGT TAGGGTGAAT ATTTTCTGAC	600
15	AGAAACCGAC ATCAAATTGA GCTAAATAAT CGTGTAGTTG CTGATTATCT AAATGTTCTA	660
	ATGCAGATAA CTTTTGTTTA ACTATGGATA ATTGTGCAGG TGTACTGTTT CATCTTCTAA	720
••	TTCATAATTA TATATTAATG ATTGAATATA TAAGCCTGTT CCACCTGCTA TGATTGGAAC	780
20	TTTACCTCTA TTCGTtATAT CAGTAATTAA ATCTTCTGCT AATCGCTTGA ATTCATATGC	840
	TGAAAATGTA TCATCAGGAT TCAAGATATC AATTAAATGA TGTGGAATAC CATCCATTTC	900
	TTCAGGTGTN ACTITTGCAG TTCCAATATT CATATGTCTG TAGACTTGCA TAGAGTCACC	960
25	GCTTATGATT TCACCATTGA TACGCTTCG	989
	(2) INFORMATION FOR SEQ ID NO: 801:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 543 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 801:	
-	CGTTAGATAT AGAATTAAAA GATAATATTA AATTTCAAAA CGGTCAAAAA TTGACTGCAG	60
40	AAAAAGTGAA ATCTAGCCTT GAAAATAGCA TGAAAAAAAG CGACTTGGTC AAATATTCAT	120
	TACCAATATC ATCAATTACC GCTAAAGGTC AAAAACTGAC AATTAAAACC AACTCCGCTT	180
	ACCCTGAACT TGTATCTGAA TTAGCTAATC CTTTTATGGC AATTTATGAT ACAGATGCTA	240
45	AATCAGATGT TAATCAAACT CCTGTTGGTA CAGGCCCTTA CCAAATAAAA GATTATAAGC	300
	AATCTCGAAA AATATCATTG TCGAATTTTA AGGACTATTG GCAAGGTAAA CCGAAACTTG	360
50	ATCATATTAC TGTGACGTAC CAAGAAGACG GCAATAATCG CGTCAGAAAT TTAGAATCTC	420
-	AAAAAGATGA TTTAATAACT GATGTCCCAG TTAATAAAGT TCAAGACATA GAAAATAATC	480

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540

AAAATTTAAA AGTGTCAAAA GAATCTGGAT TTAGAACTTC TTTACTTATG TATAATCATA

(2) INFORMATION FOR SEQ ID NO: 802:

(I) SEQUENCE CHARACTERISTICS	(i) SEQUENCE	CHARACTERISTICS
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- (A) LENGTH: 1139 base pairs (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 802:

	GCGAATTCGT	ACACACATAT	ACACAAAGAT	AATCATAGTT	TTACATTGAA	GCACATGAAA	60
15	GATAATTCAT	TTAAAGGAAG	GTATTATCAA	TGACTAAAAA	AATGGGATTA	TTAGTTATGG	120
	CTTATGGCAC	ACCTTATAAA	GAAAGTGACA	TAGAGCCATA	TTATACAGAT	ATTAGACATG	180
	GTAAACGTCC	ATCTGAAGAA	GAACTTCAAG	ATTTGAAAGA	TAGATATGAA	TTTATAGGTG	240
20	GTTTATCACC	ATTAGCAGGŢ	ACAACAGATG	ACCAGGCTGA	TGCGCTAGTT	TCAGCATTAA	300
	ATAAAGCATA	TGCAGATGTT	GAATTTAAAC	TATACTTAGG	ATTAAAACAC	ATTTCACCAT	. 360
25	TTATCGAAGA	TGCGGTTGAA	CAAATGCACA	ATGATGGCAT	TACTGAAGCA	ATCACGGTAG	420
	TACTAGCACC	ACATTATTCT	TCATTTTCAG	TAGGATCATA	TGACAAACGT	GCTGATGAAG	480
	AAGCTGCAAA	ATATGGTATT	CAACTTACAC	ATGTGAAACA	TTATTATGAA	CAACCTAAAT	540
30	TTATTGAATA	TTGGACGAAT	AAAGTCAACG	AAACATTAGC	TCAAATACCG	GAAGAGGAAC	600
	ATAAAGACAC	GGTATTAGTT	GTTTCGGCAC	ATAGTTTGCC	AAAAGGTTTA	ATCGAAAAGA	660
	ATAATGATCC	ATATCCACAA	GAACTAGAAC	ATACTGCGCT	TTTAATTAAA	GAACAATCTA	720
35	ATATTGAACA	TATCGCGATT	GGTTGGCAAT	CTGAAGGTAA	TACAGGTACA	CCTTGGTTAG	780
	GGCCAGATGT	ACAAGATTTA	ACACGTGATT	TATATGAAAA	ACATCAGTAT	AAAAACTTTA	840
	TATATACGCC	AGTAGGTTTT	GTATGTGAGC	ATTTAGAGGT	GCTTTATGAC	AATGATTATG	900
40	AATGTAAAGT	AGTTTGCGAT	GATATTGGTG	CGAATTATTA	TCGTCCAAAA	ATGCCGAATA	960
	CACATCCATT	ATTTATCGGT	GCAATTATTG	ATGAAATCAA	GTCTATATTT	TAATGACGAA	1020
45	AGAAGCGTGA	AACGTTGTGA	CTAAATCAGT	GGCTATTATA	GGAGCGGGGA	TAACAGGTTT	1080
.5	ATCAAGTGCA	TATTTTTTAA	AACAGCAAGA	TCCTAATATT	GATGTAACCA	TCTTTGAAG	1139

(2) INFORMATION FOR SEQ ID NO: 803:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 989 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

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• •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 803:		•
	TATCCHAAAT AHAAATGTGC GCATTTATCA AAACCTTACA TACAATAGAG TTTTCCCTAA	60	
5	CAGTAAATTA GATATTATTA CACCTGTTGA TATGTCTTCT AATGCCAAAC TGCCAGTTAT	120	
	TTTTTGGATG CACGGTGGTG GTTATATTGC GGGTGATAAG CAGTATAAAA ACCCATTATT	180	
10	AGCGAAAATT GCTGAACAAG GGTACATTGT TGTGAATGTA AATTATGCAT TGGCGCCACA	240	
	ATATAAATAT CCCACACCAT TAATTCAAAT GAATCAAGCA ACTCAATTCA TTAAAGAAAA	300	
	TAAAATGAAT TTACCTATTG ATTTTAATCA AGTAATTATT GGCGGTGAYT CTGCAGGTGC	360	
15	TCAATTAGCT AGCCAATTTA CGGCAATACA GACGAATGAT CGCTTAAGAG AAGCCATGAA	420	
	ATTTGATCAG TCATTCAAAC CATCGCAAAT TAAAGGTGCT ATACTATTTG GTGGTTTTTA	480	
•	TAATATGCAA ACAGTTAGAG AAACTGAGTT TCCAAGAATA CAGTTATTTA TGAAAAGTTA	540	
20	TACTGGCGAA GAAGATTGGG AAAAGAGTTT TAAAAACATT TCACAAATGT CGACAGTAAA	600	
	ACAATCGACA AAAAATTATC CACCAACATT TTTATCTGTT GGAGATAGCG ATCCATTCGA	660	
<i>25</i>	AAGTCAAAAT ATAGAATTCA GTAAGAAATT ACAAGAATTG AATGTACCAG TAGATACTTT	720	
25	GTTTTATGAT GGTACGCATC ATTTACATCA TCAGTATCAA TTTCACCTTA ATAAACCTGA	780	
	ATCGATAGAT AATATCAAAA AAGTGTTACT TTTCTTAAGT CGTAATACAT CCTCTAGTGG	840	
30	TATTCAAACT GAAGAGAAAC CACAAATAGA AAATCCGAGT AATGAATTAC CGTTAAATCC	900	
	TTTAAACTAA TGATAAACAG TAGTAATTTA TTACTTAAGC AACATTTAAG ATTTTCAAAT	960	
**************************************	TIAAAACCAC-ACTTEEA AAAC ATCCCCCCC	000	
(2) INFORMAT	ION FOR SEQ ID NO: 804:		35
(A) (B) (C)	JENCE CHARACTERISTICS: LENGTH: 711 base pairs TYPE: nucleic acid STRANDEDNESS: double TOPOLOGY: linear		40
(xi) SE	QUENCE DESCRIPTION: SEQ ID NO: 804:		45
TAAnCCCTGG T	TTAATGATT TTGATTACGT GTTTTTATAA TAAAAACATA TCGAACATTG 60		,,
ACTACGTTAT -TI	AGCTGCTT TTTTGTACAC TTTATAACCA ATAGCTTAAG ATTTAAAACT 120		
NATCGGAAAG A	ACAATGATT CACCAMAAAA ATATITATGT TGCTATTAAA AATCAGTTAA 180		50
TACGAATGTT A	AAATACGTT TGATTTTCAT TAATAATGAT TCAAGTTTAT TTAAATGAGC 240		

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1677

STTAATGTCA GTCTGTTTTG ATGCACCTTA TAATAAAGAC AGATAGTTCA AATTACGTAA

	AAAGCAACAT TAGCATTAGG AATATTAACT ACAGGTGTGT TTACAGCAGA AAGTCAAACT	420
	GGTCACGCGA AAGTAGAACT TGATGAGACA CAACGCAAAT ATTATATCAA TATGCTACAT	480
5	CAATACTATT CTGAAGAAG TTTTGAACCA ACAAACATTA GTGTTAAAAG TGAAGATTAC	540
	TATGGCTCTA ACGTTTTAAA CTTTAAACAA CGAAATAAAG CTTTTAAAGT ATTTTTACTT	600
	GGTGACGATA AAAATAAATA TAAAGAAAAA ACACATGGCC TTGATGTCTT TGCAGTACCT	660
10	GAATTAATAG ATATAAAAGG TGGCATATAT AGCGTTGGCG GTATAACAAA G	711
	(2) INFORMATION FOR SEQ ID NO: 805:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 680 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 805:	
	ATCAGGAAAA ACAGAATAAT GTAAATCAAG CTGTTCAGCC TCAAAATAAT ACTAATGAAA	60
?5	CATCAAAAGT ACCGGCTAAT TTTGTCAAAT TGAATGATAT TAAACCAGGT GATACTTCTA	120
	TACAAGGAAC AACTTTACCA AATCAATTTA TACTATTAAC TATTGATAAA AAAGATGTGA	180
••	GCTCAGTTGA AGATTCTGAC AGCAGCTTTG TTATGTCTGA TAAAGATGGG AATTTTAAGT	240
30	ATGACTTAAA TGGTCGCAAA ATTGTTCATA ATCAAGAAAT TGAAGTGTCT TCATCAGATC	300
	CCTATTTAGG TGACGATGAA GAAGATGAAG AAGTAGAAGA AACTTCAACT GAAGAAGTTG	360
35	GTGCTGAGGA AGAAAGTACA GAAGCTAAAG CTACATATAC AACACCGCGA TATGAAAAAG	420
	CGTATGAAAT ACCGAAAGAA CAGCTAAAAG AAAAAGATGG ACATCACCAA GTTTTTATCG	480
	AACCTATTAC TGAAGGTTCA GGTATTATTA AAGGCCATAC CTCTGTAAAA GGTAAAGTTG	540
10	CTCTATCTAT TAATAATAAA TTWATTAACT TTGAGACAAA TGCTAtGGTG GtCCAAATAA	600
·	AGAAGAAGCG AAATCTGGAT CAGAAGGAAT CTGGATGCCT ATTGATGACC AAGGATACTT	660
	TAATTTTGAC TTCCAAACGA	680
15	(2) INFORMATION FOR SEQ ID NO: 806:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 950 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GTATTTCATT	AGCCATTGGC	AATTGACATC	TGACAATGAG	GAATGGCTTT	TGCATTGGAA	6
	TTCACAGTTG	GAGTGCATTT	ACTGGTTATT	TTGGAGGTCA	TTGTTGATAC	ATTATTAATG	12
5	GAGAATAACC	GAATTTGTTA	TGTTATTTCC	ATTTTTAATA	TTTGCAATTG	TATTAAATGC	18
	TGCACTTGGA	GATAAAATTA	AAAATCCTTA	TGGATCTGCC	ATAATTCTTG	TTCTAGTTAT	24
	TATCGTATTA	AGTTGGGGAG	GTATTGACAA	GACTTGTTCG	TGGTAAAGTA	CTTCAAGAAA	30
0	AAGAAAATGA	ATACTTTTTG	GCAGCAAAAT	CAATTGGTAC	ACCCACATAT	AAAATTATTT	36
	TGAAACATCT	TTTGCCGAAT	ATATTAAGTG	TAGTTATCGT	ACAAGCAACA	TTGTTATTTG	420
5	CCGGTATGAT	TGTAGTGGAA	TCAGGTTTGA	GCTTTTTAGG	ATTCGGAATT	AGTAAAGCAA	480
•	TACCATCTTG	GGGTAATATG	TTGAGTGATG	CTCAAGAAGG	GGATGTTATA	AGTGGTAAAC	540
	CGTGGATATG	GATGCCACCT	GCTATAATGA	TTACATTAAC	TATATTAAGT	ATAAACTTTG	. 600
0	TAGGGGAAGG	GATTAAAGAT	GCTTTTAATC	CTAGAGGTAG	ACGTTAAATA	ATAAAAGAGG	660
	CACTAGTTAA	TTCTAGTACC	TCTTTATTTT	ATCTCTTACG	TCCTAAACCC	ATCGCTTTTT	720
	CCATTTTTT	GACAGTTTTA	AATGAAACTT	TGTGTGCTyT	ATCTCTACCT	TGATCTAAAA	780
rs	TATCAYCAAG	TTTATCTGAG	TTATAGAAAC	TTTCGTATTT	TTCTTGGAAT	TCTACTAAAA	840
	ATGCTTTAAC	TATTTCAGCA	AGGTCACCTT	TAAATTTACC	ATAACCTTCG	CCCTCATATT	900
	TTGCCTCAAT	ATCTTTAATT	GGCATGTCTG	TTAATCCAGC	GTATATTGAA		950
0	(2) INFORMA	TION FOR SE	O TO NO. RO	17 . ·			

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 807:

GTTACCAGTC	GAAGCTTTAC	GACCTGTTAC	GAAACATTGT	TTACCCATAT	GAGTACCTCC	60
TTTAATAAAT	ATAAATACAC	ATAACTACTT	ATATACTTAA	TTAAGATAGC	ATAGTTTCAT	120
TTGAAAAACA	ATGAATAATT	TTCACATAAA	AGTCAAAAAT	ACTGAGTTTT	GTGATATAAT	180
TGTAGACTGT	GAAGTTATGT	AGTATGATAT	TTTAGAGAAA	TAAGTGAATG	AAACATTTAA	240
AATTTTTATT	Tratgatact	ACATCTATTA	AAAGAAAACG	CCTATAGATA	ATCGTCaTGA	300
GTGTAAATTC	AGTTtACTCa	AcAtATAaTA	GGkGaTTTAA	gCgTAAGtCa	TTCTGATAAG	360
TTGTACCATT	GATATTTTAT	GAAATAnTCn	ATGAACTTAA	AGCGTTTATG	CTACACTA	418

35

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 842 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 808:	
10	AATGGCHATT AATCTTTAAT ACGATGCTTG AGGATTTTTC CTAATAAAAC CTTGATTTCm	60
	AAAAGGGTTT AAATCMAATG AAACAATAAT AAAAAAATGW CGCAATATAA TAATAAGTAC	120
15	AAATTTAATT AAGAAATTAA ATTGATTGTA TATGTATATT TTGGTAACGT AAAAGAGANA	180
.0	TATACAAAAT AATTAATTAT TTATATGAAA AGAGAATATA AATGAAGTAT AAAACAGAGA	240
	GACGTGAAGC GATGGGATAT TTAAMAAGGT TTGCATTGTA CATAAGCGTT ATGAYTTTAA	300
20	TATTTGCGAT AGCAGGTTGT GGCAAAGGTA ATGAAACAAA AGAAGATTCA AAGGAAGAAC	360
	AAATCAAAAA GAGCTTTGCG AAAACATTAG ATATGTATCC AATTAAGAAT CTCGAGGACT	420
	TATACGACAA AGAAGGATAC CGAGATGGCG AATTTAAAAA GGGTGATAAA GGGATGTGGA	480
25	CGATATATAC AGATTTCGCC AAAAGTAATA AACAAGGTGG ATTGAGTAAT GAAGGTATGG	540
	TCTTATACTT AGATAGAAAT ACACGGACTG CAAAGGGACA TTATTTTGTT AAGACATTCT	600
	ATAATAAGGG CAAATTCCCA GATAGAAAAA ATTATAAAGT TGAAATGAAA	660
30	TTATCTTATT AGATAAAGTA GAAGATACAA ATCTAAAAAA GAGAATAGAA AACTTTAAAT	720
	TTTTTGGACA ATATGCAAAC CTTAAAGAAT TGAAAAACTA CAACAATGGT GATGTCYCAA	780
	TTAATGAGAA TGTTCCAAGT TATGACGCAA AATTTAAAAT GAGCAATAAA GATGAAAATG	840
35	TT .	842
	(2) INFORMATION FOR SEQ ID NO: 809:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 451 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 809:	
٠.	TAAGACTATG CCATCTTGGC AACGCGTTGT CGCATATTCA TTATTAGTAA GTATATGCAA	60
50	GCATGATTTT GCCATAACUT TACCUCUTTC TATATTTAAG TACCACTTTT ATCATTCCCT	120
	ATAATATTA ACTTATTAA TTAAACGTAA ATTTAACACA ATACGAATAC CAAATCAAAA	180

	AAAAATAGAT GTAGTCAGTT TAATTAAACT ATCCAATTGA AAACACACTA CTTTTTAGTA	300
	TTTTCAAAAT AATTTTAAAT GACCACATCT ACAACGTATT ACTATTATCT TTTGTTAGTT	360
	ATATATTCAT TTTCAATTTA FAAATAAACA CTTAETTAAA TCACATTCTA CTTTTGAGAT	420
•	GAGCTCAAAC TAACATTAAA TTGTTTATAT T	45
·)	(2) INFORMATION FOR SEQ ID NO: 810: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1499 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 810:	
,	ACATTTTGTG CTTGTTGTCC AATCCAATTT CTACTTTGTT GAACAGTATG AGTTGCTTGA	60
	CONCOUNTED BY CHOICE COM MICHOCAN CO. MONOR PROPERTY ON CONTROLL OF THE PROPERTY OF THE PROPER	100

20 CCACGCATGT TACTCAGCAT TTGTCCAACA TGAGTATTTT GAGCAAAGTT ACGAGATTGA TTCAACACAC TGTTTTCAT CATTMCCATT TTAGGTGAAA TACGACTAAC TGCTTGTTGC 180 25 ATTGTCTTTT GCAATCCTGT TTTAACTGCA AATTTTTCTC CGCCTTTGAA GCCTAATTTC 240 ATTAAACTTT TCCCAGCACC TTTGAGGAAG CCCATACCTG GCAATGGAAT AAGCGAAAGT 300 CCTTCCATGA TTCGTTCTTC TTTAGATAGC TTTCTTCCAG TTACAATATT TTTTCCTGTG 360 30 GCTGCATTTG CTGCTGAATA AGCGGAATAA GCACCAATAG CTACTGCTCC AGCAACAGGA 420 TTAATACAAG ATAAAACTAC CATACCAGCT AGTGCTGCAA TCTCTATAGC TTCTTCTTTT 480 TTCTTTTGCT CCTCTAGCTC TTCCGCTTCA GCTACTGTCA TGTAATCACA AGAAGCGCCC 540 35 TGAGTCATCA TTTTTTCAAA ATCACTTTTA GATAATTTCT TATCTTCTTT TTTCATTTCT 600 TTGTAATGCT GATCAATTAC TTTTACAAAT TCTTGATCCG ATTTTAATAT TTCATCGATG 660 CTATAAACAT CGCTGTCACT TITCTTGGCA TCTCCCTTTG CAATTTTCCC AGAAGCCCCA 720 40 TAGGTATCTC TACCATGTCC ACCACCATTT TTAATTAGTA TATTTTCCAA TTTAACATTC 780 GTTATACCTT TGAATGCTTT ATCTATATCT TCTATAAATG GCGTGTCAAT AATTTCTTTC 840 ATTITCGAAT CTAATTGAGA TGCATAATCA TATAACTCAT TTTGATAATA CCCCATTAAT 900 TTAGATCCTT GTGGACCTAC TACACTACTT GTTAATGATA TTGCGCCATC TTCGTCTAAA 960

GAACTGACAT CGCTTACCGC ATCATCCATT GTTGTATCTA CATCTAAGAA GTCTTGACCC

TCTATTGCAT CTATTACACT TTGGATAGAT GACTTTTCAT TGTCATAATC AGCTGTTAGA

TATTCAATAT CTTTTGTCAT GTCATGCACC TATCCCTCAA TATTATAGTA AAGCTTGGCA

1020

1080

1140

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	CCACCGAGTG TACTCAATGG ACCTTTGAGA CCACTAATGA CTGTTGCAGC ACTACTATAG	1260					
	CCATTTCCA TAGAATGTGC AGCTTTTCA CTACTGTAGT AATTTAATTG CGCTATTTT	1320					
5	CCAAAGTTTT GAGCTATTTC ATCATACTTT TGACTTATGC TTTCCAATTC TTTTACAACA	1380					
	TGTGCAATCG TTTCAGCTTT AACACTAATT TTTCCACTCA ACGTCATTAC TCCTCtGcTt	1440					
	TATLAATATG ATTITCATCA GTATCGAATC CAAATAATTC TCGTGATAAA nGTATTGAA	1499					
0	(2) INFORMATION FOR SEQ ID NO: 811:						
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 620 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear						
	(with groupings programment of the No. 11)						
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 811:						
	Chcgctgcac cgaagaatgc ttttggtttg tgtaaagatg caggatctaa accacctgat	. 60					
	AATGTACGAC CACTTGGTGG AATAACYAAG TTATAAGCGC GTGCTAATCT CGTTATAGAA	120					
?5	TCCATTAAAA TAATGACATC TTCCCCAATT TCTACTAAAC GCTTTGCACG TTCAAGTAAT	180					
	AATTCAGCTA CTTTAACATG GTGTTCTGGT GGTTCGTCAA ACGTTGAATG AACGACTTCA	240					
	GCAGCTTCTA CTGAGCGTTC TAAATCTGTT ACCTCTTCAG GACGCTCGCC AACTAACAAA	300					
30	ATAAATAGCT TTGCATCTGG TTTGTTCGTA CTGATTGCAT TCGCTATTTC TTTTAATAAC	360					
	GATGTTTTAC CTGCTTTAGG TGGCGCCACT ATTAAACCAC GTTGACCTAA ACCAATCGGT	420					
	GTTACTAAAT CCATGATGCG CGTTGAATAA TTTTGTATTT CTGTCTCTAA TTTAATACGC	480					
35	TCATCTGGAT AAAGTGGTGT CAAAGCTTGG AAATGCGGAC GTTTCTTCAC TTCTTCTGCG	540					
	TTATGGTCAT GACAAAGTCA ACTTGTAATA AGCCATAATA TTTTTCGTTA TCTTTAGGTT	600					
10	TTCTAACTTT CCCAGTTACT	620					
	(2) INFORMATION FOR SEQ ID NO: 812:						
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1094 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear						
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 812:						
	CCGCTGAAA TTAAGTTCTT GTTATATTTC GCAAAAATGA CAAAGAAAGA TAAAAATAAA	60					

	TGAACTATTT	GCAATTAGAG	AATTGTTAGA	GAAAGGTTTG	ATTGGTGATT	GTATTCAACC	180
	TATAATIGAA	CCAATTAAAT	ATACAACCAC	ATTTAAAAAT	ACTTTGCAAT	ACTGTGGTGA	240
5	AAAAGCATTC	TCTATAAATT	TAGTAGTAAA	TTCAAAGTTA	ACTGAAGAAG	AGATTAGTAA	300
	CGAAaCTGTt	GCACATTTAA	CTGAAATAAT	AACAAAAAAC	AAAAGTGTTA	TTCAAAAAGC	360
0	TTACTTGGGT	CCTTCTGATG	AAGGCAATGA	TAGGTTGAAA	CAGCAATTTT	CAAGTAATAG	420
	TTTAGCTATT	TTAACAAGTG	TAGATGATTG	GGAAATGTTT	GGAGATAAAA	ATAAACTTGA	480
	AATGGTTTTT	GTACCAGATG	ATAGACACAT	TAAACGTAAA	TTGCGTAATA	TTCCAAACAA	540
5	AGGCATSATT	ATGGATCCTT	TTAATAAACT	AAGTCGTAAT	GTTGATTATT	TAGATAATGA	600
	TGACGAGTTT	TATAGCGACG	ATCACCTTTA	TTATAAGGAA	GATGGATACG	TAGCATTTTC	660
	AGACTATTCT	GTTATAGGTG	GAGAATATGT	AGACGGTGGC	TTTTCGCCAT	TAGCTATTGC	720
ro	GrTACATATT	GTCTATTTTG	ATGAGGCTAA	TGAGCTAAGA	GTTAAGCATT	TtGTCTCTGa	780
	TTCTAATAAT	GATAGATCAA	ATCCAGGTAA	AAnGTTTTTT	GAGGCTGTAG	ATAAATTAGT	- 840
5	AACATGGTCA	AAAAACTTAG	AAAAATTATA	TAGATCTTAT	GCGCTTGGAC	AATTTGAAGA	900
	ATTAAATGAA	aataataagt	ATCCAGGATT	AGGTTTAATT	AAAnGTTATC	TATCAGCATC	960
	ACCTAGAAAT	TATGAATAGA	TACTGGGTCT	CAAAGAAATA	GGAAAAGTTT	ATATCGAACT	1020
0	GAACTGCAAG	AATGCATTGA	CATGGATGAA	CACACGGGTA	AAATGATCGC	AGCTGAAATG	1080
	ACTATGGTAT	TAGC					1094
	(2) INFORM	ATION FOR SI	EQ ID NO: 8	13:			
5		EQUENCE CHAI (A) LENGTH: (B) TYPE: nu (C) STRANDEI (D) TOPOLOGY	930 base pa acleic acid ONESS: doub	airs			

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 813:

CACCTATCAT CGTCTCTTTA ATTCTATCTA TCTATTTACC CCAATCGTAA ATATGATGGA 60 -CGTTATAGAA TACCAAGAGT TGCAGGTATn TCTATTATTT ATCTAGCTGT AGTAGGTGTT 120 180 AAAAATTCAC CGCAATATCT AGAAAAATTA ATTAATTCTA TTGATAAAAT AGCAAATAAT 240 ACGITITICI CITCGIATTA TAGICAAATI AATGATIGGI TAAATICITI ACCIAAGAAA 300 ATACCATCTA TGTTAAGTGA ATTTACAGAT GGCTTTGGGT CTAAAATTGC AACGTTTGCA 360

	CTTAAAGATG GACATCACTT CAAAGAATTT TCAACGAATA TTATGCCACC GAAATTCCGA	480
_	ARAGATTTTC ATGATCTACT TGAAAAAATG AGTGTTCAAG TTGGTTCATA CATTCAAGGA	540
5	CAAATTATCG TTTCATTCTG TATCGGTATA CTGTTGTTTA TCGGTTATTC GGTTATCGGG	600
	TTGAAATATA GCTTAGTATT AGCTAGTATT GCGGCAGTTA CAAGTGTTGT ACCATATTTA	660
10	GGGCCTACTA TAGCGATTTC TCCAGCTATT GTAATNGCTG CTATAACAYC GCCGTGGATG	720
	CTCTTAAAAT TAGCAGTAGT ATGGACTTTA GTACAATTTG TTGAAGGGCA CTTCATTTCA	780
•	CCAAATATCA TGGGTAAAAC ACTTAAGATT CATCCACTTA CAATCATTTT CATTTTACTG	840
15	TGTGCAGGCA AATTGCTTGG TATTGTAGGC GTTATTTTAG GTATTCCGGG ATATGCTATT	900
	TTAAAAGTAT TEAGTTACTC ATTTATTCCA	930
	(2) INFORMATION FOR SEQ ID NO: 814:	
20 25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
* * *, *	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 814:	
30	GTATGATTGC TGTTTTAATA CCAGATGATG GCAGTGGCAA ATCTTATGAC TATATGCTTG	60
•	TGAACCCAAA AATTGTAAGT CATAGCGTTC AAGAAGCTTA TTTACCAACT GGTGAAGGTT	120
	GCCTTAGTGT CGATGATAAT GTTGCTGGTC TAGTTCACCG TCATAATAGA ATTACAATTA	180
35	AAGCCAAAGA CATCGAAGGT AATGATATAC AATTACGACT AAMAGGATAT CCAGCAATTG	240
	TTTTCCAACA TGAAATTGAC CATTTAAATG GTGTAATGTT CTATGATCAC ATTGACAAAG	300
40	ATCACCCATT ACAACCACAT ACAGATGCAG TAGAAGTTAA AACACATTTT CTAATTATCA	360
	AAGCTTAGGA TAALATGATG LCCTAAGCTT TCCTTTACAA CTTTTCGGAT AACCAACAGT	420
	TAATATATCA CCTTCTAACC AAACTTTTAA TCCCTCATTA A	461
45	(2) INFORMATION FOR SEQ ID NO: 815:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 573 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

1684

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 815:

	AACGATATAA TAGAATTGAA TAAAGTGGGT GATAATGTGA CTAAAAATGA GATTAGAAAA	120
	TACATTTTAC ATAAAATGAA GAATTTTAAT AAAGCTGAAA AGCGAAAAGC AGACACATGG	180
5	TTAAGAAATC AATTTTTTGC AACTGAAGAA TACAAAGAAG CAAACGCAAT TGCGCTAGTT	240
	CTTTCTTTTA ATCATGAAGT AGATACTTTT TCTATTATTG AACAAGCCTT AATGGATCAT	300
10	AAACGTATTT TTGTACCGAA AATGGATTAT TTAAATCATC AAATGACTTT TAAAGAGATA	360
10	TTTAATCTCA AAGATATTGA TGTCGATAAT AAGGGGATTT ACTATCCAAC TTCAAAAGGT	420
	GAAACAACGA ATAACCTAGA TTTAATTGTT GTTCCTGGTG TTGGATTTCA AGACGATGGA	480
15	TATAGAATTG GGTATGGTGG TGGCTATTAC GACAGGTTTT TAGCTAATTA TCAGACAAAG	540
	ACAATAAGCT TATTATACGA TTTTCAAATA ACA	573
	(2) INFORMATION FOR SEQ ID NO: 816:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3989 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 816:	
30	TAGTTTAACA ATGTCTATTC TCATAGAATT TGTCCAACTA AATGTAGACG ATTCACTAAA	60
••	CTTCTAAAAA AATAAACCCC AAATTATAAT AGTCTCAATA TTAATATATT ACAATTTATT	120
	CATAGGATTT TTATCATTTC AATTAATAGG TTGTTATCAG GGTTAAATAA ACATTTTTTG	180
35	TAATAGTCCT TTTTTACGTT CTTTTAATAA CTCAATTCTA TTCATTTGAT TATTCATTTT	240
	ATTGTCTATA GATTTTAACA ATGCACTTAC TTTATCYTGT TCAGTGAGAC AAGGTATTTT	300
	AAGATTTATA TTGCATAAGT TCGCATGAGT TAATTTAGCT GGTGCATTAC CTGTGACAAA	360
40	TGCTCGTAGT TCTTTAAAAT TTAAATAATA ATTCATAAAA AACAAATTAT GATCATTACT	420
	TTTAACTACA TGCGCATGAT TATTTACCCA GTATTGCCCA TTAGCAATAA AGCTACTCGT	480
	CTCAAACTGC CCCCATTTTG CACCATCTTC TCCTATTAGT AATCGTTCTT CATTATTGAA	540
45	TAAATAATCT TTTACGTAAT CAATAATTCC AGTTGCACCA TAGTAAGGGT ATAACCCCTT	600
-	TTCTCTTAAT GAAGAAGTAA TTGGTTTTCT TCTATTATTT TCAAAGATAA AGATGTCTTT	660
50	TATGAATTTG TTTTCCCACT CTGGATATTC TTCACCATTC TCATCTTTGA ATCGCAATTC	720
	TTGTGTGAAG ATTTTCTGCA TATAGCCTTT TTTCTGTTGT TGAAGCAATT CAAGTTTTTG	780
	TTCTTCTAAT TCAATTTGTC GGTCGAGTTT GCTGAAGAAC TTGCCTATTT TTTGCTGTTC	840

	TCGACTACCT	CCACTTTGTG	CAAGGAAAAT	TTTCCTTTTA	CCTTTTCTTG	ATAATAGATA	960
	CTGTCCAAAA	AAATTATAAT	AATACTCTTT	TTTCAATCTA	ATAATACATA	CATGTTGATT	1020
5	TAAATTAGCA	TGCGTTTCAA	CTATCGAATT	AATGGCTGTT	CTACCTATTG	ATGCTCCTGT	1080
	AATATTTAAA	AGAACATCAC	CATAGTACGT	TCTACTATTT	TTCATCTCAT	CATCTATATC	1140
	TTTACTAATA	TAAACTAAGT	CATTAAGATT	TAATTTACCA	TTTCTAATAT	TTTGACTCCT	1200
10	TAAAAATGGT	ATGCCTTTGT	TTGTATAGTT	TTCACTTCCA	CCTTTGGGAG	TCTTTCCACT	1260
	ACCTATTTTG	GTAGTAAGAT	TCCCTAACTT	CTTCTCTTCC	CATTCGCCTT	CAAATCCTGG	1320
15	GAATCTCAAC	TCTGGCACAT	TTTTCGTTTG	TGTATTACTC	ATCTTTCAAC	ACCCCAAGTT	1380
	CTTTCAGGTA	TGCATTGATT	TCTTGTTCAA	TTTCTGCGAT	TTCTTTGTCG	ATATTTTCA	1440
	AATCTTGTTG	GACTTGATCT	AAATCAATTG	GTGCTTCTTC	TTCGAATGTA	TCAACATATC	1500
20	GCGGTATGTT	TAAGTTGTAA	TCGTTATCGG	CGATCTCTTG	TAATGTCGCG	CTGTAGCTAT	1560
	ATTTATCAAT	CGTTGCTTTA	CGCTTATATG	TGTCTATAAT	ACGTTCGACT	TGGGCATCGC	1620
	TTAAATGGTT	TTGATTTTTT	CCTTTTTCAA	AATCATTGGA	TGCATCGATA	AATAGTACGT	1680
25	TGTCGTCTTG	TTGGCGACAT	TTTTTAAATA	CTAAAATACA	TGTTGGAATA	CTTGTCCCAT	1740
	AGAAAATATT	GGCTGGTAAC	CCAATCACGG	CTTCTAAGTA	GTTCTTTTCT	TCTATTAAAT	1800
20	AGCGACGAAT	CACACCTTCT	GCGGCACCAC	GGAATAATAC	ACCATGTGGG	aGTACGACTG	1860
30	CCATGGTACC	TTCATCGTCT	AGGTAATGTA	CCATGTGTTG	AATAAAGGCA	AAGTCTGCTT	1920
	TGGaTTTTGG	CGCAAgCTTG	CCGTAACCAC	TGAATCGTTC	ATCATTTTCA	AATTTTGAAT	1980
35	CTGCTGTCCA	TTTCGCACTG	TATGGTGGGT	TCGCAATAAC	CGCATCAAAT	GTATTGCCTA	2040
	AAAAGGCTGG	ATTTTCCAAT	GTGTCATCAT	TACGGATCTC	GAAGTTCTCA	TAACGCACAT	2100
	CATGTAATAA	CATATTCATG	CGTGCTAAGT	TGTATGTAGT	ATTGTTACGT	TCTTGTCCGA	2160
40	AATAACGATA	CACTTGCGTT	TCTTTACCAA	CACGTAACAA	CAATGAACCG	GAACCACATG	2220
	TTGGGTCGTA	CACGTGACGT	AATTTATCTT	TACCGTCTGT	GACAATCTTC	GCCAGTATCT	2280
	TAGATACTTG	TTGTGGTGTA	TAGAACTCGC	CTGCTTTTTT	ACCCGcTGTC	GCCGCAAAGC	2340
45	GCCCGATTAG	GAATTCATAT	GCATCACCTA	ACATATCAAT	TTCCATGTCA	CTGTGAACGA	2400
	ATGGTAAGTC	GTCAAGATTA	ACCATGACTT	TAGAGATTAA	AGCAGTACGT	TCTTTGACAT	2460
50	TGTTACCTAG	TCGCGTTGAA	CTCAAATCCA	TATCGCTGAA	CAGCCCGATA	AAGTCATTTT	2520
	CACTTTCTTC	ACCTAATGTA	GATGTTTCAA	CTTTGCGAAT	CGCCGTCGCT	AGATGTTCTA	2580
	#8#CC888TC	TTCCCTTTCS	ATTTCACGAA	TCATCGCACT	CAATAAATCT	TGTGGCTCAA	2640

	CCCATGCTTC	TTGATACGTG	ATGTCTTCAC	CTGACAAGGC	ATCTGCATAT	TCTTGTTCGG	2760
	CTTTTTCAGA	TAAGAAGCGA	TAGAAAATCA	AGCCTAAAAT	GTAATTACGG	AATTCACTCG	2820
5	CATCCATGTT	CCCTCTTAAA	TCATTCGCAA	TCGACCATAA	TTTTTTATGT	AATTCAGCTT	2880
	GTTGCTGACG	TTGTTTTTCA	GTAATAGACA	TGTGATTCCT	CCGCCTTTGC	ATAAGTAATT	2940
	TATCTCTTTG	TGTAATAGAT	TTATTATAAC	ATTTGGTTAT	GTTGCGATGT	TGATAATTTG	3000
10	GATGTTGGTG	GTGGAAATTT	TGAGTTTTAG	TGGCGCAATT	GTTATTGAAA	AATTTTATAG	3060
	AAATGTTGTA	GCTTTCAAAT	GCTTTCAAAA	TCATTTATAT	TCTTAATGAT	GTCAAAAAGT	3120
15	TGTTCATTCA	TACATAAATA	AAACCAATCA	ACAATTGAGT	TGGTGAAAAT	CAATCGTTGA	3180
	TTGGCTTTGA	TGCATATTAA	ATAATGCAAT	ATATATTAAT	AAATGTTAGT	TATAGTATAT	3240
	TTTGTCAGGA	TTGGGTGAAT	GTCTAAGTTT	TAATTATTTA	TCTAAATTAT	CTGCAATGAA	3300
20	TTTCTTAATT	TCAGGAGAGA	AATAAACAGC	AAATCCTCTT	GTGCTTTCAC	CTGATGGCTT	3360
	ATTACCGGCA	TAGATTACAC	CAATAGCTTC	GTGTTTACTA	TTTAATATAG	GTGAACCAGA	3420
	GCTACCAGGC	TGAATAATTG	CATCCGATGA	CACTATATTC	CCATTCACTG	ATAATACTTT	3480
25	ACCAGTTGAT	TCATACATTT	GTAGTTTATT	TCCATTAGGA	TTTGGATAAC	CAATGACTGA	3540
	TATAGGTTCA	TTTTCTTTAG	CTTCTGATGC	TATATTAAAT	TTACTAGTGA	AATCTTTGAA	3600
30	TTTTCTACCT	TTTGGTTGTG	TTGATTTTTC	TTCAACTTGT	ACAACCGCAA	TATCTTCTTT	3660
	ACCAGGATAA	TCTACAATCT	TAGTAACTTT	ATAAAGTCCA	CCACCGTTAT	TATAAAAACC	3720
	ATTAGGATGT	GCTTTGATTT	CATCACCGAC	TTTCATGTGA	TAGGTAACAT	GTTTATTGGT	3780
35	AATGATTGTA	TGATTTCCAA	CTACAAATCC	TGTTCCAGCG	CCCATCCATG	TAACACCACT	3840
	GTATGGTGCA	ACATTTGTAT	TTGTAATTTG	TTTAACAGTA	TTTTCGGCTT	TGGCTGTTTG	3900
	TTGAATACCT	TCAACCATTG	TTGTGCCGAC	ACCAGTTATT	GATGTTAAAA	TCGTCAATGC	3960
40	TGCAATACTT	TTGATGATTA	TATTTTTAT				3989

(2) INFORMATION FOR SEQ ID NO: 817:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 904 base pairs
- (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 817:

CGTTGAGCAC AGTTTTAGAT AATAGATAAT CTTGCLCTAG TTGTTGCAAT GTCTGCGATT

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	TATGCGTGTA ACGTTCAGTT ATCGTTTCTA AGGTATACTG AGATGTATTT AATTGATATC	18
	CTTTAGATTT AATACTTACG ATGATATCAT CCATAAAATT GCTATTGATA ACATGGATAT	24
5	CATTGCGAAC TGTGCGGTTT GAAACATTGA CATGTTTAGC AATTTCATTA GAACTAATGT	300
	GCTTTGATGG ATTTTTAATA AAAAACTGGA GTAGTTTTAA GTGTCTATCA AGCATTTAAC	36
	ATGTACCTCC TTTCTAAATT TTTCGTGTAA GCGTTTTTAA GGGTGTATTA ATATTATTAA	42
10	ACATGAGAGC TTATACATAC GTCAATGACA TTAAAGCGAA CTTTTATATG ATTTTAACAG	48
	AGTGCGAATT ATGCAAATAA AGAACAGCAG TAAGATATTT CAAATAGAAA AATATCTCAC	54
	TGCTGTTTTT CTGAATTTAT GCATCTGGTA CTTGTGGACG TATCAGGCAA ATGATTAATT	600
15	TTTAGGTGAT TGTGCTTGAG GTGTTTGTTT AGAAGGCGTA TTGGTATTAT TTGATTTATT	66
	AGCAGGTGGT GTGTTCTGTT GTTGATTATT TTGGTTGTTT GTTGACGATT GACTGCCACC	720
· · ?0	ACCGTGAGTA TTATTTTAT TTGAATTTGA GTCTTTTGGC TGAGCTGGTT GCGTATTCGA	78
	TGGTACTGTT GAATGGTTGT TAGGAACATT TGACGGTGAA GATGGTTGAT TGTCATTAGT	84
•	AACGTTATTG CCATTATTTT GATTLTTATC TGTTTGTCT GCACTATCAT CTTGTTGATC	900
?5	ATTT	904
	(2) INFORMATION FOR SEQ ID NO: 818:	
3 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 818:	
	TTTAACALGA TAATAAAAA TCTTTTGTTA TATCATTAGG AATATTTGAT GAACTTGATA	6
40	TTAAGGTTAC ATTTTGAGAA ATGGACTTAG GGATATTTCC ACTATTATTT AGTAAGAAAT	120
	CTTTAGCTAA TAAAGATTTT CCTACACCAT TTTTACCAAC AATGTGATTG ATCTGACCAA	180
	GATAGAAATT TAAATCACAA TTGTCAACTA GTTGTTTGTT TTTAACTTTT AAAGAATAGT	240
45	TATTTAGTTT CATGTATACA ACTCCTATGT ATAAAGGGAT TTATTACACC GATATTTAAT	300
	TGTATTTTA AAAATTCLTT CACATTATGT ATAGAWGTTA TAAATTAGTA TATCACACTA	360

TATTTLGKCT AAATGATAAA TATATCGTTA TATTTTTACA ATATTCTGAA ATTTATGTTC

GCCTCTGAAT GCTATATCCA GTGTAATGTG TTTTGCATAT ATGAAAGCAA TTTCAAAATG

TGAATATAGG TTCATTGTGG TATGACAAAC TTCATTGCTT GTCATGAGAT GGATATAATG

	GACGGGACGT TTTTAGATTC AAAAAAGACA TATGATAAAC TTAGATTTGA AGCGATTTTT	, 660
	ACTGAACTTA GAAATAGAGA TATTACATTT ATTGCTGCGA GTGGCAATCA ATATGCGAAG	720
5	TTGAAGTCTA TTTTCGGGGA TAGAGATATG TATTTTATTT	780
	TATAATGGCA ATGAGTTATA TAATTATAAA AGCTTTAATC GTCAGGTGTT TCAACAGGTT	840
	GTCGATTACT TAAATATGAA GCAAAGTATT GATCAACTCG TCATCTGTGG TTTGAAAAGC	900
10	GCGTATATTT TAAAACATAC TTCTGAAGCG TTTAAAGAAG ATACGAGATT TTATTATCAT	960
	CAGTTAAAAG AAATTGACAG TCTACAGCAA TTACCTGAGG ATGATTATGT CAAAATAGCA	1020
15	TTTAATATTA ATCGTGAGAC GCATCCGAAT GTTGACGAAG AAGTAGCAAC GCAATTCAGC	1080
	AATGATATTA AACTTGTCTC AAGT	1104
	(2) INFORMATION FOR SEQ ID NO: 819:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1425 base pairs	
.•	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 819:	
	CCCnTTTTAC GGATTAAnGG CTTTTTCCTA TTTAAAACCT ACGGCATTTT CTTTTCAACC	60
30	ACGGCGGCTC CCATATGGAT GGTATnGGGA TTGGGGTTTA TAAAATGGGG ATTGGAAATG	120
	GTCCATCCTA AATACTCAGT TTAGTGCTTA TTTCCTTTAG TGCTGACGAA TAAATATGAT	180
35	CTAACTCTAC GAAACCTAAT AACGTATCAA ATGCTTCATC ACCATTTTCA AATTTACTTA	240
	AACTATTTT AAAATCATGT CGCAAATCCT CTAAATATAG TGATGGTTTT CGATCTACAT	300
	ACATITITAT ACTAACCTCC GATATATAAT CATCTTTATT GTACCTAACA TTTTATTAAG	360
40	ATAATACTAA TACACTATCG AACTTTGGGC TGATACTGAA ACAGCACAAA GAAACTCAAA	420
	CAATTCGAAT TATGTATCAA AACCTTCAAT TACAGGAAGT GATTTTAAAA TGATTTAACG	480
	CAAAAAACA CCTGTTACCG TTATATAGGT ACAAGTGCTT AATTGATAGA GATGTTATAC	540
45	GTCTTTAAAT GATTCCACAA CTTTTGGATG TGGACCATCC ATAAGCGGTT CTCTTTGTCG	600
	AACGCCACCA CTTTGGTTGC CAATTGATTC GCTATCAAAG TACGATTTAT CTTGATTTGA	660
50	TTGTTCTTGA ATATGTTCTT CATTATCAGT TGTTGCATAT TCACTATCCA CCTCTGTTTT	720
-	TTCCATTGTT GCTGTATGGA ATTGTACGAA GTTCTCTTCT TCTAATGCTT TGATTTCTTC	. 780
	TTTCGATAAC GCTCGATACC AATCTTTCGC TTTTTTCGCC GCAaTAGGAa CAaCAtCTTT	840

TACTTCAAAT TCTTTCCATT TTTCGGGGTA ACCTTTCATT GTAAAGGGCA TTCCCTTAAC 960 CTCCAATATG TTATAATTCA TGTTATATAC CACCATAATT ATAAAATGAA ACATATTAAA 1020 CACAATTTT TAGACTCCCG TCATAATAAC TTCAGACAAA CGTTAGTCTG ACCTGATAAA 1080 TATTTAATTT TAAACGTTCT TGTCTCTCTC ACGAAAACCA TTGTGTTGAA TATTCATCAT 1140 TGCTGATTGA ATATAATTAT ACTGTGGTAA ATCTGGTAAT ATCTTTATTT CTAATTCTGT 1200 ATTTAATTCG AAATGCTTAG CGATGTTTTC AAATATTGCT AAATACTCGC CCATTAATTG 1260 TTCATTTATT GTAAGTCTAT CTTCATTAGC CATGGCTCTA TTTAACATAA AGCTAATTTC 1320 TTCTAATGCG AATAAGCTAG GATAATAATT TTGAATCAAT GTCTTATCAC TAAATAATTC 1380 ACCATTAGCT GCATTATAAA CTTGCGTGCA TGTTATTTAA TTTGC 1425 (2) INFORMATION FOR SEQ ID NO: 820: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 820:

NCGNCCTTAT ATATGTTTTT CATGTCCTAC AAAAAACGAA ATATTCCAAT TGCCTATATA 60 CAGATATTCA TTAATGACAC ACTCAATAGC AACCATnACA ATATTATGTT ACCTATTTAA 120 ATGAAATAGT TCTTTTAAAG AAATACATTT TTCACATATT AATCTATAAT CAAAATCAAC 180 TGACCGATAT TCTATAATTT ATGATTAAAA TAAGTTATAA TATAATAGTA AAGATAAAGA 240 TAGAGGTGGC TATAATGTGT GGACTTAGAA GTATAACATT AGGTACAACA AATATAGAAC 300 AGACAAAACA TTTCATGGTT GACATATTAG GATTAAATTA TGAAGAACTT CTTGAAAACT 360 CAATTCGTTT CGGCGATGCA GATATAAGCC CAGGAACAAG ACTTCAATTT ATACAAGTTC 420 CAAGTGAGCA ATTAGAAGAA TCTCACTTTG TGGGTATTGG ATTACGTACA CCAACTGACT 480 CAGGTTTAGA GGAGTATGCG GAAATATTAT CGAATAAGGA TATTCCATTT ACAACAGTTA 540 AAGAATTAAA TGGCAATAAA TATTTCAGTC TCGAAGATAA CAATGGTCAT ATTTTCTCAA 600 TATATTCAAA CGAGAATAAT TATGGCGTTG GTTTAGGTAT GCCTTCTTYT GAGAGTGCGG 660 TCAATCCGTT ACATCAAGTG CAAGGTTTAG GACCAGTGAT TCTTAAAGTG AATCATGTAG 720 ATATTACAGG TCAAATTTTA ACAAATATAT TCGGACTTGA AGTATTTGCA GAATACCAAC 780 CCTTCGACAA TGCTGACTAT CATGTCCAAG TATTCAAAGT TGGAACGGGT GGTCTAGGTG 840

	ATCAAGTTGA GTTTGAAACG AAAGATGCAG ATTTCTTTAA TCAAGCGAAA TCGCGCTTAG	960
	ATGAAGTGGA AATACCATAT CAAACGCTTG AGCAAGATGA TATTGAATCA ATTAGAATTA	1020
5	CTGAAAACAG TGGATTATCG TTTATATTCA CTTTACAAAA ATAATTTTTT TACGATAGCG	1080
	AGGACAAAAT TTATGTTACA TGAAACTTGG AAAGAACGTA CACCAATCAA GAAAGTAGAA	1140
	GTCATTAATA CAGATGCAAA GAAAT	1165
10	(2) INFORMATION FOR SEQ ID NO: 821:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 821:	
	TCGCCCAATT ATTATGAAAT ATTCAATACA GTTTATTGAT CAAAAAACAA AAATCCATTA	60
	TGAACCTTGT CATCACGAAT ATTAACTGAC GTTAGATGGA CCTCTTTAAT GATAGAACAA	120
25	TTAATAAATA ATGCACTTAA GTATGCGAGA GGTAAAGATA TATGGATTGA ATTTGATGAG	180
	CAATCCAATC AATTACACGT AAAAGATAAT GGTATCGGTA TTAGTGAAGG nACTTGCCTA	240
	AAATATTTGA TAAGGGCTAT TCAGGTTATA ATGGCCAGCG CCAAAGTAAC TCAAGTGGGA	300
30	TTGGTTTATT TATCGTAAAA CCAATTTTCA ACACACAA ACCATCCGTT TCCGTCGTAT	360
	CTAAACAAAT GAGGGTACAA CCNTTACGAN TNCCATTTCC	400
35	(2) INFORMATION FOR SEQ ID NO: 822:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 760 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 822:	
45	TGATATAATA CTTTTGTAAA GAAAAGCATG TGTGGGAGGT ATGACCTGTA TGTCGAACGA	60
	AATACTTATC GTAGATGATG AGGATAGAAT CAGAAGATTA CTTAAAATGT ATTTAGAAAG	120
	AGAATCTTTT GAAATCCATG AAGCAAGTAA TGGCCAAGAG GCTTATGAAC TTGCAATGGA	180
50	GAATAATTAT GCTTGCATAC TACTAGATTT AATGTTGCCT GAAATGGATG GTATCCAGGT	240
	GGCAACTAAA TTGCGTGAAC ATAAACAAAC ACCGATTATT ATGTTGACTG CTAAAGGTGA	300

	TTCACCAAGA GAAGTAGTCT TAAGAGTTAA AGCACTTCTA AGAAGAACGC AATCTACAAC	420
	TGTAGAACAA AGCGAACCTC ACGCACGTGA TGTGATTGAA TTTAAACATT TAGAAATAGA	480
5	TAATGATGCA CATCGCGTAC TTGCTGATAA TCAAGAAGTT AATTTGACTC CTAAAGAGTA	540
	CGAATTATTA ATATATTTAG CTAAAACACC AAATAAAGTA TTTGACCGTG AACAATTATT	600
	AAAAGAAGTT TGGCATTATG AATTCTATGG TGATTTAAGA ACAGTTGATA CTCATGTTAA	660
10	ACGCTTAGAG AAAAGTTAAA TCGTGTGTCT AGTGAAGCTG CGCATATGAT TCAAACAGTC	720
	TGGGGCGTTG GGTATAAATT TGAGGTTAAA TCTAATGATG	760
15	(2) INFORMATION FOR SEQ ID NO: 823:	
 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 465 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 823:	
25	CAAAGGAAAT TGCACAATTA GAAGACCGAT TACGTTCACG CTTTGAATGG GGGCTAATTG	60
	TTGATATTAC GCCACCAGAT TATGAAACTC GAATGGCAAT TTTGCAGAAG AAAATTGAAG	120
	AAGAAAAATT AGATATTCCA CCAGAAGCTT TAAATTATAT AGCAAATCAA ATTCAATCTA	180
30	ATATTCGTGA ATTAGAAGGT GCATTAACAC GTTTACTTGC ATATTCACAA TTATTAGGAA	240
	AACCAATTAC AACTGAATTA ACTGCTGAAG CTTTAAAAGA TATCATTCAA GCACCAAAAT	300
35	CTAAAAAGAT TACCATCCAA GATATLCAAA AAATTGTAGG CCAGTACTAT AATGTTAGAA	360
	TTGAAGATTT CAGTGCAAAA mAACGTACAA AGTCAATTGC ATATCCGCGT CAAATAGCTA	420
	TGTCTTGTCY AGAGAGCTTA CAGATTTCTC ATTACCTAAA AATTG	465
40	(2) INFORMATION FOR SEQ ID NO: 824:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 824:	
50	CACCGCGGTG GCGGACGCTC TAGAACTAGT GGATCCCCCG GGCTGCAGGA ATTCGGCACG	60
	AGGTAAGGAG GTCTCTGTAC CATGGCTCGT ACAAAGCAGA CTGCCCGCAA ATCGACCGGT	120

EP 0 786 519 A2			
GGAGGGGTGA AGAAACCTCA TCGTTACAGG CCTGGTACTG TGGCGCTCCG TGAAATTAGA	240		
CGTTATCAGA AGTCCACTGA ACTTCTGATT CGCAAACTTC CCTTCCArCG TCTnGTGCGA	300		
GAAATTGCTC AGGACTTTaa AACAGATCTG CGCTTCCANA GCGCACTATC GGTGG	355		
(2) INFORMATION FOR SEQ ID NO: 825:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1099 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 825:			
TTCACTTGGC TTGTTGACTG ACTTGTALAT GATGATGTGC TTTGTGAATC GGATTCGCTC	60		
GTGCTTGTAC TTGTTGAGTT TGAGGCACTT TGGCTTGCTG AGTTTGAGTC TACTCCGCTT	120		
TGATTCATTG AGGCACTTAG TGACAATGAT GTACTCGTTG AGTCAGACAA ACTTGTACTC	180		
GTTGACGTAC TTGTACTTCC TGATGTTGAT TGAGACATAC TTATGCTCAT TGATGTTGAA	240		
TCGGATTTAC TTTCACTTGA TGATGTTGAG TCGGATTCAC TTTCACTTGT AGAACCACTT	300		
AATGATGTGG ATGTACTAAT GGAATCAGAT TTACTTGTAC TGATTGAATC ACTTGTCGAC	36.0		
ATTGATGTAC TTAATGAATC AGACTTACTA TCACTTGTGG AATCACTTAA TGATGTTGAC	420		
AAACTTGTAG AGTCAGACAA ACTTGTACTC GTTGACATAC TCAGTGATGT TGAAACACTC	480		

TCGCTCTTAA ACGTTGACGT TGATTCACTG ATACTTGTCG ATGTTGAAAT GGACGTACTA

CCACTTGTTG AATTACTTAA TGATGTTGAT GTGCTACCAG ATTCTGATGT ACTGTCTGAT

AATGACGTAC TCTCACTTGT CGAACTACTC ACTGACTCTG ATGTTGATTC AGACGTACTT

TCACTTAATG ATTCACTTAA AAAGGCAGAT GCACTTTGTG ATTCTGAATC GCTAGTACTA

TTTGATTCAC TTAATGATAT AAACGTGCTC TCTGAAGCAG ATATTGCTTC ACTTATAGAG

TCGCTCGTTG ACGTTGATTC ACTTATTGAA TCAGACTCTG ATGTACTTAA GCTTGTGGAA

TCACTCATAG ATGTTGATGT ACGTTCTGAA TTACTTGTAC TTAACGATGT CGAAGTACTT

ACCGAACCAG ATGTGCTCGT AGAAGCACTT TGTGATATTG ATTCACTTGA TGCAGTTGAT

GCTGATTTGC TATCACTCGT TGAATCACTA AACGACGTTG ATATGCTCAL TGAATCGGAT

TGACTTGCAC TCANTGAACC AGACGTACTT TGTGATTCCG AAGTACGTAC TGAAGCACTT

GTCGACGTTG ATGTACTTG

(2) INFORMATION FOR SEQ ID NO: 826:

· <i>5</i>	(A) LENGTH: 338 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 826:	
10	TATGCGTATC CTGATAGTCA CTTTGATTTT GATATGGAAT TAGCGAAAGA GCAATCTCAA	60
	GACAATCCAG TTTACTATGC TCAATATGCA CATGCGCGTA TTTGTTCAAT TTTAAAACAA	120
	GCGAAAGAGC AAGGTATTGA AGTGACTGCT GCGAATGATT TTACAACGAT TACTAATGAA	180
15	AAAGCGATTG ANTTGTTGAA AAAAGTAGCT GATTCGGANC CTACAATTGA AAGTGCTGCT	240
	GAGCATAGAT CGGCACATAG AATTACTAAT TATATCCAAG ATTTAGCCTT CTCATTCCAT	300
	AAATTCHATA ATGCTGAAAA GTGTACCAGT TGGTATTG	338
20	(2) INFORMATION FOR SEQ ID NO: 827:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 838 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 827:	
	GTATTTTCTT TCGCGAATGA TTTTATTACT TGAATACCAC GAATAACCTC CAATACCTTT	. 60
	TCCACTAATT GGTTTTGTAC ATTATGATAC GCTGGCGCAT TTTGTCGACT CTTTCTTCT	120
35	AATAATTGAA TCGCAAAAAA TGATAGTAAT ACGCCAATGC ATGCTAATAA TGATACTTGC	180
	CACGAAACTA CAAGTAGAGA CAATATGAGT ACTGTAATTA ATATGTATCC ATTAACAACA	240
	ACGTCCACCA TTTTCATAGC AAAGTTTTCT AAAAAGGTTA AATCTGTTGT TACTATTGTT	300
40	GTTAACTCAT TTGAATGATG CGAATTAAAA TAACCTAACC	360
	CCTATATCTA AACGTTCTTT CGCACTCATT TCATAAGCGA TGCTCTCATG GCTTTTGCTT	420
45	TTGAAATATG CTGTAATAAA TCGTCCAATC ACTAATAAAA CCATGATAAT TACAACATTC	480
	AATATATCTT TCATATAAAT AGGTTTATGA GATAGCACAT TATTAAATAT TTTTGCAGCT	540
	AAAAAGATAG GTAACGCAAT AAAAATAGCA TTTAAAAATG ACATGCTAAA TCCTAAAATC	600
50	ATTCTTGCTT TATATGGTCT TATCCAGTTT AAAATTTTAA ATGTAATTTG AAACATATTT	660
	GACCTCCTTT TCTCATTAGT TTAATTATGT CCAGTATTGA TTCCCCAATC TTTTGTATGC	720
	ATGTGCGTAT CCCACATTTT CTTATAATTA CCGTTTAATT TTAGCAATAA GTGATGTGAC	780

(2) INFORMATION FOR SEQ ID NO: 828:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 898 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 828:	-
	TCCnAAAGAA GAAATAaCAT TATCATaAAA TCCATTGAAT ATAAATTCAG TCATCCCTC	60
15	TGAACTECTC CATAAATATA ATGGTGAATA AGTATTTGTA ATGCAATTAG TAGTTGTTTG	120
	ACTTATTAAA TAAGCTTTTA TAATTAAATT TTTAAATCCA TCAGTCTTAT AACCATTTAA	180
	TCGAACTCTA TCTCTAATTA TTTCCATATT GTAATCACTA GGCAACTTAA CATGATATTG	240
20	CATTGCATGC ATTTAGCATA CCCCCTTTTA TAAAAAGGAT AGCAATAATA AGTAAAATCT	300
	CATATTATCC AATTGTGATA TAGTTATCAT AAAAAGTGAT AGGTGATTAA ATTGAACTTT	360
	AATGATTTGG AAATTTTTAT AACTGTATGT GAAGAAGCAT CTATCAATAA AGCTGCAATT	420
25	AAACTTAGAT ATGCACAATC TAATATATCT CAAAGAATTA GCAAGCTTGA AAATGAATTA	480
	GGTGTAGTTT TGCTTTTTAG AAATCAAAAA GGTGCTAAGG CAACTAAAGC AGGCGAAGAA	540
30	TTCTTAGCGT ATAGCAAAAA AGTATTAAGA GATACAGAGA CTATAAAAAA TAAAATGAAA	600
	AATAATACTA TGTCTATTTT ATGCTCAGAA CTGTTATTTA ATTATTTATC TGAGAGCGAA	660
	GAAATTATGA TGTCGAATAA CTCAATTAAT TTTATTTCTA GTGGAAATAT TAGAAAAGCT	720
35	ATAGAAAAA ATAATTATGA TAAGGTTATT TCATTCATAA AAATTAACGA CTCAAATTAT	780
	AGACTTAGTA ATGTTGATAC TATGAAAGTA ACGCTTTACA GTAATGGAAG TAATTATGAT	840
	AAAGAGGCTT TACTAATAAA TAAAGATGAG TTTGGTCCTT TAAGGNAAAT AACTTTAG	898
40	(2) INFORMATION FOR SEQ ID NO: 829:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 798 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 829:	
	AGTAGGAGTC ATAAAATCGn ATTTCAAAAG CAATTAATGC AAAATACTGA GTCTACAGTG	60
	CTATTTGCGA AAGCGTCCAT ACGAAGTTGA GCAATGCTAA TAATAATGGT CTATCAAAAA	120
55		

	AATATGTTGA TAGTTACACT GATTCTCTTA CTGGAGTAAC AACTTCTGCT TTTTTAAATA	240
•	AAGATACAGG CAAAGTAACT CTCGGGATGA CTGGGACTAA TTTACAAGAC GAAGCCTTTA	300
5	AAAAGTTAAA AGAAGGTGAA TTTTCAAGAC AAAATGTTAC CAATGCTTTG GAAACAGTTA	360
	AAGATGGATA TGCAGATCTT AAAATATTAT ATTCTCCTGC ATCTGATCAA AACTATAGAT	420
	ATGCGAATAC ACAAGAATTT ATAAATAAAA TAAAAAGTAA GTATGACATT GATTTATTA	480
10	CTGGACATTC ACTAGGTGGA AGAGATGCGG TAGTTCTAGG AATGAGTAAT GGTATTCCGA	540
	ACATTGTGGT TTATAATCCA GCTCCTATTT CTATAACTAG TTTGAATCCT AATTCCCCAG	600
15	ATGGAAAACG TTTATTAGAA TTATATAAAA ATTATAAAGG TAATATTACT AGGTTTGTTG	660
	CAGAAAATGA TGCATTGACA GAAAATCTGA AGAAATATAA GCATTATGTT TTTTTCGGTA	720
	ATGATAAAGT CTTTAAAAAT GGTAAAGGTC ATGAAATGKA AGGCETTCTG ACCGAAGAAG	780
20	AACAAAAAGC tATAAAAn	798
	(2) INFORMATION FOR SEQ ID NO: 830:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 830:	
	AATATCAATC TCTTCATAAG CTGAATTATT TTCATGCACT TCTTGATGTG ATGATTTGTC	60
35	ACGAACHGCT ACAACTAACA TTTTATCGTC TAAAATAAGT TGTTTATATT TTTCTAATTC	120
	ATCAGGCGCT AAGTTGTAGC GTGATAAAAC TGCATGTTCA CCATCTTCTC CTGTTAACAG	180
	TTTAGTCATT CTATCACTAA ATGTTCCACT TGTTGAGATA AGGGGAGATT TCAGAGTCGT	240
40	GTAAGTCATT AGGTGTAATT TACTTTTACT AATAATTGTT AGCCTGATCT AAATAACTTC	300
	AGATTCTTTG ATTGATANGT GNATAATCGC AGTGCATTAC ACAGAATACT GCCAAGTGCG	360
45	CCCTTAAAAT TGTTATTAnC TTACCTCTAT ATAAGAACCC	400
45	(2) INFORMATION FOR SEQ ID NO: 831:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 475 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AAGTCTGCAT GACTTTTATT TGCAAGTTCG ACTGCTTGAT CAAAAGCGCG ATGATCTTCA	60
	GGATLAGCAC TTTGAACTGA GCTGAAATTC GGATCAGGTT TACATTGTGC TTCTACAAGA	120
5	TTAAATTGAT TGAAATTCAA AGATTGTAAT AACTCAGGTA CAATCGGAAC ACTTGTACCA	180
	TGCAAACTAG TGAACACAAC TTGTAAATCA GATTTAGGAA TATAGCCAAT CATATTTTGA	240
10	ATGTGTTTCA TATAGTCATC AGTTACAGAT TTCGGAAAAG GCTTGATATA AGATGTATTT	300
	TGTTTAGAAA tAGGTATATC AATCTGTAAT GGATCGCCAA CTTCTTCGAT ATAACGACTT	360
	GCAAGCTCAG ATGCATCAGT CGATAATTGC GCACCATCAG AACCATATAC TTTGATGCCG	420
15	TTATAGTCTT TCGGATTATG ACTTGCtGTA ATCATAATGC CAGCAGTAGT ATTAA	475
	(2) INFORMATION FOR SEQ ID NO: 832:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 724 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
?5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 832:	
	CTTGAATTGA AGGATACGCA AATGATGCAT AATCAGCTTC TGTATAAAGC TGTAATGTAA	60
30	TGTCATCAAG GTCACCTTTT CTAACAAGCA CCTTATTAAT AGAAGTATGA TTCGCTTGCC	120
	AAGTACCTTG ATTATTTTGT TCTAAATGAA TGACTTCGCC TAACGATTTC AACGTAATAT	180
	CTGCACGCTC GTCTTCGCTA ATAGTATATG TCTTACCATC TCGCAAATTG AGCATCTTCA	240
35	ATTGTTTGTT ATATTTTATA ATCAATTTAT GCATTGTCTT TGCCTCAGTC CTATACTATT	300
	TITTTCTTTC AGCTTCTTGG CGTTTTTCTT TATCTTTTTG TGCTTGTTCT TTTTGTTTCT	360
	TTTCGTTCTC TTCTTGTTGC TTTAATTTCT CATCTTTCGC TTTTGCTTTC TCTTCTTCAG	420
10	ATTTCGCTTT TTCATCTTTA ACTTGTTTTT CTTTGTCTAA AATATCTTGC AATTTATCGT	480
	TATACTTTTT CGTTTCTTCA GAACGTTTAT CATTCGATAA ATCTCCGTTA TTTTTAATCT	540
15	CATTTAATTT ATTAATCAAC GCTAACTTTG TAATATCGTT ATCATCTAAA TAAGTGGCAA	600
	TATTAATCGC TTCATCAAGA TGTCCTTGTC CTAATTCCAT CCAATATAAT AAGTAGTCTT	660
	TGTTTGAATT TGGTGTCACA TTATTAAGTA AATTTTCTTT CGTATCTGTn TCTAAACCnT	720
50	GTTn	724
	(2) INFORMATION FOR SEQ ID NO: 833:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 833:	
	AGCAGTTTGG CTCGTAGAAA TCTCCCGTCT CTATTCTATG TATTAACTTT TATTATATTT	60
10	GTTATGATAC TATCGATATG AAAGCGTTGT CAATGGTTTT TGTAAAAATT TTGTCAAATT	120
	TAATTTTTCA AGTCTTTATA AAAGTAGTTT AATTTGAAAA CTAGAAATAC CAATCCTAAC	180
	TAATTTATTT ATGACGCTCT TTTGTTTAAT TGACATTCTT CAGCCATATT TTTTATGACT	240
15	AGTTGCATTT TTTACTAATA AACACCTCTA AAACTTTAAT GATTTTAATC GTTTTAGAGG	300
	TGCTAATTAT TTTATTTGAT TATTTTTTGT TTGATACCTA CTGCATATCC CATATGAAAA	360
20	CGGCTTTTTT ATTATGTTAT ATGACTAAAT CTCGTGAAAA ATGAAATTTT TGCAGACTTA	420
20	TGATTTACCA AAGTTTATCA TAACTAGTAG TTACATATTT CGCTCCATTT TTAACAGCTT	480
	CATTGACTTC ATCTATTGTA TTAATTAGGC CACCTGCAAT GACTTGTGTG TTTGTTTCTT	540
25	TCTGAATATG ATGAATCGCT TTACTCGCAA CACCTGGAAG TACTTCAACA AAATCAGGTT	600
	CAACTITITI TATCAAATCT ATACTGCGTT TCAATGCTTG ACTATCAATA ATAAATACTC	660
	TAAAAATCGT TAAAGTATTT AATGATTTAG CTTTTTTTAT TACTTTAGAT TTAGTCGATA	720
30	CGATACCTTT TGGCTGTAT TGCTGAATAA TAAATTCACT TGCAAATTCA TCGTGGCTTA	780
	AACCTTTTAT CAAATCTATA TGAATAAAAC ACTCTATATG ATTTTGCTTC AGCAATTCCA	840
25	TAATACTTTT TATATGTCCT ATATGCATAT CTAGAAGCAC ACACATTTTA TAGTCTGTnT	900
35	TAATCCAGTT TCTCTAAATC nTTAATGTTT CCTATAAGCA GGCAATATGT TGTTAATTCA	960
	CTnGATCCAT CCTCTCTACA TCACACGCTT AAAT	994
40	(2) INFORMATION FOR SEQ ID NO: 834:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 783 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 834:	
50	TCnACAAAGT CGGTATTAGG CTATGGGCCA TTTnACTATT ATAACTAATC GGAAATATAC	60
	CACATAACAT CATTATTGAG TTGATTCTAT CATTTGGCTT ATTAGGGTTT TTTATCATAA	120
5 <i>5</i>	TGATTTGCAT TTTGCTAÇTA GTTTATAAAA TGATTAGGAA CTATGATCCA AACACTATAG	180

	ATTTAGTTGT AAGTO	SAATTT TGGTTTGTGT	TGTTCTATTT	TATTACAAAA	GGACGGCGTC	300
	ATCATGGCTA AGAA	GTTTT TATTATGGAT	AGCGTAAAGA	CAATAATTGG	TACGTTGCTT	360
5	ATAGCTTTAG GATTA	CAATT TTTAGCTTAT	CCAATTATTA	ATCAACGAGT	AGGTAATGAA	420
	GCGTTCGGTT CTATI	TTAAC GATTTATACA	АТААТААСАА	TCACGAGTGT	TGTATTAGGC	480
	AATACGCTTA ACAAT	ATACG mTTGATTAAT	ATGAATCTAT	ACAAATCCAA	TCATTACTAC	540
10	TGGAAATTTG CATCO	ATACT TTTAATCTCA	ATTCTGATTG	AGAGTATAGC	TTTAATTATT	600
,	GTATTTCTTT ACTT	TTTAA TTTGAACATC	ATCGATATTA	TCTTTTTAAT	TCTACTTAAT	660
. 15	ATTTTAATGT GTTTA	AGGAT TTATCTGAAT	GTATTTTTTA	GGATGACTTT	AAAATATAAT	720
	CAGATTTTGT ATATT	GCTCT TATTCAATTT	TTAGGTTTGC	TGATAGGACT	ATTTCTATAT	780
	nAT					783
20	(2) INFORMATION	FOR SEQ ID NO: 8	35:			
	(i) another	CULDIO CONTRA CONTRA CONTRA	_			

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 794 base pairs (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 835:

TTACCTAATT	TITCAAtCaT	AAGATTCCCC	CTATTGTTTA	AACaTAAAAA	TATTATACGA	60
TTAAGCACGA	GmCACTTCAA	TATATTTTTC	AGAATATTCT	TATAAATATT	AATATGATCA	120
TTTCACTATT	TAAACACGTT	TAATATTAAA	ATAAGTTATT	CATATAAACT	GGTGCTGTTT	180
GATCCAATTG	CAGACTTACG	AGTCATTGAA	AAGTCTCACA	AACTATTGmA	AGTAAALATC	240
TTAAAATAGA	AAGTGAATGG	TTAATTTAAG	TATATTTMAA	AAATATTAAC	CTTTTTAAGC	300
ACTGCTATTT	AGGATATACT	AAATAATAAC	TAAGTTTAGA	AAAATAGGAG	GAACATCGTT	360
TATGTTAAAC	AAGGTTTGGT	TCCGAACTGG	CATCGCTCTG	ATTATGCTGT	TCATTCTCAT	.420
CAAACTATTT	ATGGAAGTGC	ACGAAGTATT	TACTCCAATA	GCTACAATCA	TCGGTTCTGT	480
ATTTCTTCCA	TTTTTAATTA	GTGGTTTTTT	ATTTTATATC	TGTCTACCTT	TTCAAAACTT	540
ACTTGAAAAA	GTCGGTTTTC	CAAGATGGGC	TAGTATAACA	ACAATCATGT	TAGCTTTGTT	600
TGCTATTATC	GGCTTAATTG	TTGCGTTTGT	TGCACCAATC	ATCATTTCAA	ATATCAACAA	660
TTTAATTAGT	CAGACACCTG	gCCCTACAAA	AAGGAAGCAG	AGCAAATTAT	TAAATTCGCA	720
CTGGCTCAAA	TGGnTAAATT	ACCTGGAGGA	TGTAACCAnG	TGGATTACCA	ATATGGTAAA	780

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(2) INFORMATION FOR SEQ ID NO: 836:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 836:	
	TGTTTATACT GTGCCTGAAT TAGAAGAGGT TTTAACACCT ATGAGACAAG ATGGAACTCG	6
15	TGATATTTAT GTTAATTTAG AAAATGTGAG TLATATGGAT TCGACAGGTT TAGGTTTATT	12
	CGTAGGTACA TTAAAAGCAT TAAACCAAAA TGATAAAGAA CTATACATTT TAGGTGTGTC	180
	AGATCGTATC GGTAGACTAT TTGAAATTAC TGGTCTTAAG GATTTAATGC ATGTTAATGA	24
20	AGGAACGGAG GTCGAATAAC ATGCAATCTA AAGAAGATTT TATCGAAATG CGCGTGCCAG	306
	CATCGGCAGA GTATGTAAGT TLAATTCSTT TAACACTTTC LGGCGTTTTT TCGAGACTGG	360
	TGCCACATAT GATGATATTG AAGATGCCAA GATTGCAGnT	400
25	(2) INFORMATION FOR SEQ ID NO: 837:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 837:	
	ATTGATCCAT TTTGCGGTTC GGGTACAATA GCTATAGAAG CTTGTTTAAT TGCTCAAAAT	60
	ATCGCACCTG GTTTTAATCG CGAGTTCGTA TCAGAGCAAT GGAACATCAT GCCAGCAAAT	120
40	ATTTATGATG ATTACCGTGA TGAAGCGGAT AAGATGGCTG ATTATGATAA AGAAATCGAA	180
	GTATATGCTT CTGATATCGA TCCAGAAATG GTAGAGATTG CTAAGCGTAA CGCTGAAGAA	240
	GTTGGGTTGT CTGATATTAT TAAATTTAGT GTAAAAGATG TCAATACATT AACAATTGAT	300
45	ACAGAAGAAC CGGTGGCGTT AATTGGAAAT CCTCCATATG GTGAACGTAT TGGTGATCGT	360
	GAAGAAGTEG AAGAAATGTA CCGTTATATT GGTAAACTAA TGAAACAACA TCCATTTTTA	420
50	TCTACATACA TTT	433
	(2) INFORMATION FOR SEQ ID NO: 838:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 838:	
	ATTGGGCCAA CTAATCCTGT ATATCCAAAT CCAGCAGACA ATGGTGTTCC TTTAACCTGA	60
10	AGAACGTAAG CAATGATTCC AGTAATTATT CCATTTATAG TCAATGGTAT CGAAATAATT	120
	AAATTITTCA AGTAAACTGG GATCATCATT TTTGCAGCTC CTATGAGTAA AACTGCATTT	180
	ACACCAATAG AATTGACACG CAATGAGCCA AATAAGAAAG TAACACAGGC AGCCACTATA	240
15	CCTAGGTTTG CTGCTCCACT TCCTAGTCCG TTTAAACTAA TCGCAGTTGC AATCGCTACT	300
	AACGATATTG GTGTTACCAT TAATAATGAA AATGCCACAC TAATAAGTAT AGACATTAAC	360
20	AACGGATTTA AGTCTGTAAA AGAATGAATT ACATTTCCAA TTGCTTGAGT AATTTTTCGA	420
	ATGTAAGGTA ATGTGATTAG ACCGATACCC CCACTAACGA TAGGTACTAA AACTGGTAAT	480
	ATAATTAATT CAAAAGATCC AAGTTTGTTT TGTAATACCA TATATATAAG ACATGCAATA	540
25	ATAACAACCA AACTCGTATT TATAATGECA CCTATACCTT TTAACATAAA ACTATTATTG	600
	CTATATACAA CAGCACCTGA ACCAATCATA GCTGATGTAC CTACTATAGC AGCACCTGCA	660
	CCATTAAATT TAAATTGATG AGCAGCTAAA ACCCCAATAA TAAATGCCAT AAATGATTGA	720
30	ATTAGTATCA CTAACTGATA CGTTAATTCT AAAATTTCAT TACCACTTTT AAATATTTTt	780
	AATACTTCAC CTAATAAAGC ATTCGGAACA AGTGCAATAA CAACACCAGC ACCAATAGAA	840
	TTTAAAATCT TACTGAAAAA CTGTTTATTA TCAGCATTAT TTGCGTTACT CATAAACGAC	900
<i>35</i>	CTCCAATTTG AACATTANAC TCATCA	926
	(2) INFORMATION FOR SEQ ID NO: 839:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 839:	
	CTTCGAAACG TACTTGGTCA TTCCCTTTAC CAGTACAACC ATGTGCAATA CCTACTGAAT	60
50	TTGTTTTCTC AGCAATCTCT ACTAATTTTT TAGCGATTAA TGGTCTTGAT AAAGCTGAAA	120
	CTAATGGATA TGCATTTCA TACATTAAAT TTCCTTTGAT TGCATAACTT ACATACTCAT	180
	CACTAAATTC TTTTGTTGCA TCAATAATAT GACATTCAAC TGCTCCCATA TCTAAAGCTT	240
55	•	

	CGTATCCLTT GTCGATAAGC CATTGAACGG CCACACTTGT aTCTAGLCCL CCKGAATATG	360
	CTAAAACAAT TTTCTCTTTC ATAAAATTCA CCTCATTGTA	400
5	(2) INFORMATION FOR SEQ ID NO: 840:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1043 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 840:	
	GGATCGCGGT GTTGTGCTTG ATATACTTTG TAGCGATAAC GTTTACCTAC ACAATCATAA	60
	CGACAATGAA AATCGTCATC GACTGTAACT ACATTGTTGA CATAAATATC ATCAGGTAAC	120
20	GTTCGGTTCA TTGCATATTG CCATTGTGAC ATAGGTATAT TCAGCTCTGT GTCGAAATGA	180
	AAGTATTGCT GTATCGCATG TACACCTCTA TCAGTCCTAC TTGAAGGATG GATTCTCACA	240
25	TGTCTTTTAT GCATGCGTTG TAATAGCTTT TCAAATTGTT GCTGTACCGT TCGACCATTT	300
	TGTTGAATTT GAAAACCTAG AAAATTATTT CCTTGATACG CAATTTCTAC TAATATACGC	360
	ATGAATTTAC ACTCCTGAAT ATTTTAATAC GAATAAAATA ATTGCAATTG GGATAATCAT	420
30	GGTTAAAGAT ATCGTATCTC TCAATTGCCA TTTAAGCTGT CTGTAGCTCG TTCTCTTAAC	480
50	ATTGGCATCA TAACCCCTAA CTTCCATTGC GACCGCTAAT TCTTCGGCGC GTTGGAAAGC	540
	TGAGATGAAT AGTGGCACTA GTAATGGAAT AAATGATTTA ATACGTGTTG CAATGTTCCC	600
35	TGAACTTATT TCAGAACCAC GCGACTTTTG CGCCAAAATG ATTTTATCTA ACTCATCCAT	660
	TAACGTCGGG ATGAATCGTA ACGCAATGGA CATTATCATA CTTAATTGAT GAACTGGTAA	720
	TTTAAACATC tTTAGTGGTG CAAGTAATCT TTCAAACGCA TCTGTTAAAT CAATTGGACT	780
40	TGTAGATAGT GTCaTAATTG TTGCAATCAT TACAATCCCA ATTAAACGCA GTGrTATATA	840
	TAGCCCTTCT AAAATACCAT TAGTTTCAAT CGTGATGCCA TGCCATTCAA CTAATACATA	900
	TCCACCTTTA GTTAAAAATA TATGCATCAT TAATGTGAAG ATTAAAAAGA AAAATATTGG	960
45	TGTTAAACCT TTGATTAGGA ACCATAATTG AATTTTTGCT AATCTCATAA TGAANANGAT	1020
	AAGTGCAAAC ACCCAAAGAT ATG	1043
50 .	(2) INFORMATION FOR SEQ ID NO: 841: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 343 base pairs (B) TYPE: nucleic acid	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 841:	
5	TCGAAATCAA ATTATAATAG ACAATTTTAG GAGGTGGACT TTCGATGACC AAAGGAATCT	6
	TAGGAAGAAA AATTGGGATG ACACAAGTAT TCGGAGAAAA CGGTGAATTA ATCCCTGTAA	120
	CAGTAGTAGA AGCTAAAGAA AATGTTGTAT TACAAAAGAA AACTGTAGAA GTTGATGGAT	180
10	ACAACGCAAT CCAAGTTGGA TTTGAAGACA AAAAAGCATA CAAAAAAGAT GCAAAATCTA	240
	ATAAATATGC TAATAAACCA GCTGAAGGTC ACGCTAAAAA AGCTGACGCn GCACTGAGAG	300
15	ntcccctcat aatttcccca ancgtaacca tgtgtgaata aat	343
	(2) INFORMATION FOR SEQ ID NO: 842:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 430 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 842:	
-	ATGAGTATTT TAATGATGCG CTACGAGCGT ATGGTCTTAC TGTGAMAACA GGTGAATTTG	60
	GAACACACAT GAATGTTAGC ATAAATAATG wtgGwCagTC TCTGGTAGTT TAGAATTAGA	120
30	AGAATTAAAG CAATTTAGAC AATGGGGTTC TAAAACACCA GGTCATCCTG AATACAGACA	180
	TACAGATGGT GTAGAAGTTA CTACCGGACC ACTTGGACAA GGTTTTGCTA TGTCmGTAGG	240
35	ATTMGCTTTA GCAGrAGATC ACCTAGCAGG GAAATTTAAT AAAGAAGGAT ATAATGTTGT	300
	AGATCATTAC ACATATGTAT TAGCTTCTGA CGGTGATTTA ATGGAAGGTA TATCGCATGA	360
	AGCAGCTTCA TTTGCTGGAC ATAATAAATT AAGTAAATTA GTTGTTTTAT ACGATTCAAA	420
40	TGGATATTTC	430
	(2) INFORMATION FOR SEQ ID NO: 843:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 843:	
	GGACTGCCCG ATGATTTGAC AAATGAATTG CTGATTTGAT TTATATATTA TCTGAAATTA	60

	TCATCTATCC AACAATATGT CTTATCAATG GTATAGTCTT TGCACACCAA TGGAGGNAAA	180
	TAAATCTCAA CCTTACTATA TTAATATATA ATCAAATCTT AGATTAACTA GTGTAATGAT	240
5	ACAGATGGAT AATTGAGTAC AAATTTAAAA CCCTGAGATT TTCGCTTTAA TTTGAAAAACC	300
	TCAGGGNTTA TTTGATTTT ATATAATGA	329
	(2) INFORMATION FOR SEQ ID NO: 844:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 844:	
20	AGATGAAGAA AGTGTTTCAT CGATTATCTT AACAGTTGTT GCTTTATATA CTACAnTTCT	60
• •	TCCTAGATCT TGTACCGTTG AAAAGAGACC TGGTTGTAAA ATCTTAATTG ACATTTTCAA	. 120
	TCACCACCCA GTCATCAACA TTAAAGTTGC CATCTGATAT ATCTCTTTCG ATTTGTATAA	180
25	ATTTCTGTTC ATCTATTGCA TAAAATTGTA TCCATTCTCC TGCTTCGTAC ATTGACATTG	240
	GTTCACGCTC GCTGCTAAAT ACTTTTAACG GTGTGCGTCC AATAATTTGC CATCCGCCAG	300
30	GGAAATCTGA TGGGATATAG TCCTGTTTGA TTATTCGCAA TACCTACAGA ACCTGGCATG	360
00	AATTTTTTAA CCTTGGGCnG ATTACGTCTA nGGnGTATGT	400
	(2) INFORMATION FOR SEQ ID NO: 845:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 535 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 845:	
	CATAAGTCCA GTAACCTTCA ACTGTGTCCT CATCTTTAGT TCCAAATATA TCAACGTATT	60
45	TATTTCTTAA CTGATTAATG TTTCCCCAAC TCTCGGATCC AAACACTTGA ATATGACTAT	120
	.ACCAAACCCA CGTTTGCAAT GTTGCATGAA TGCTACCATT GGGCTTTTGC CATAACCATT	180
50	TTCCAGATAA TGAAAAATGC GGCTGAGTGT AATATTTGAT TAGTTCATTG ATATTAGTCT	240
30	CGTTTTCACT GATATTATAG GCTTTTGCTT CAGATGAAAA ACTGATTGGT GTTTTAGGAA	300
	GTTGTGTTGA TGTAGTTTCT AAAAGTAACA ATGCTGTTGA TAAAACTAAT TTATTCATGA	360

	ACCGATTCGG AATTAAATAA AAGCTAAAAC TATGTTAAAT AAACTTAAAC AGTTAGTAGT	480
	GTTATTTAAG CAAAACTTAT CATTTTTAAG TTGGACAGAA CAGATCAATA AGAGC	5 35
5	(2) INFORMATION FOR SEQ ID NO: 846:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 509 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 846:	
	TCAATCGATC AAATGGTGAT TGACCTTTTA AATTTGTATG ATCAAAATAA TGATTGTTGG	60
	CCATATCTTT ACTATGCTTA CGTGCAGTTT CAGAATTCTG TTTAGAATAC TTCAATGTAG	120
20	ATAATTGATG TTGTTTTCTT TCAGCATTAA CTAAATCAAA ATTTTGTAGT TCAAAACTAT	180
	CTGCAAGCGA TTTCGATGGT GCTCCATATT GTTCTTTTAA TCTATTTTCC ATAGCATCAC	240
	TTACTTGTAA AACAGCTGTT ACATTATTAC GTCGATGCTT ATCATAAAAT ACCGTCGTAT	300
25	AAATGTGATT TTTATGGAAA ACATCATATT CTTTATTATT TTGTTCGTAA CGCACTCTAC	360
•••	CTTTAACAAT CTCTGTTTCT GGTTCGCCTA ATCTTTGCCT TACAACCGAT TTAGGTGTAT	420
<i>30</i> ·	TGTATTTAAT TTTTGATTTT GAAGTGATTA TATTTTGATT TGTATATAAC GCATTAACTT	480
••	TATCTTTCAT GTAACTTATC ATTATAAAA	509
	(2) INFORMATION FOR SEQ ID NO: 847:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 847:	
	CGTATTGATC TATAAATAGT GTTTAGATGC TATAGTCGGA TGCTTAAGTA ATTTAAAGAA	60
45	AGTATCTTTA ACATCGATGT GTGTATAATC ATTTTTAGAA GTATTATAAT CTTTTTCTTC	120
	TCCCTTCTAA AATATATACA GGTGCTTCAT CAGCTAGTGG TTCAACTGGA ATGTCAGCAT	180
50	AAACTTCGCA TCATATGTTA AACAAAAACG ATTGTATCTG TACTTCACCT ATAACAGCAC	240
	TATCCAATTC GTGCTTATCA AATAAACTAA GATTTTTGTC AGTACCTTTT CACAACTAGT	300
	ACATACGTCT TGAGTTCTGA AGCATCATTT CATAAGGAGA ATACTGGCCA CGTGTGGACT	360

(2) INFORMATION FOR SEQ ID NO: 848:

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5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 848:	
	TACCACTTGA ATACATTGCA TATAAAATAC GACGTTGTAC TGGTTTTAAA CCATCACGAA	60
15	CATCTGGCAA TGCACGCTCT TGAATAATAT ATTTACTATA TCTTCCAAAG CGATCACCTA	120
70	AAACATCTTC AAGTGATAAA TCTTGAATTA TTTCACTCAC TAGATTTCCT CCTCATCAAA	180
	TTGATCATTT TCAAGCACTT GTACTTCAGA ATTATCTAAA ATACTTTGGT CCTCTTGCAT	240
20	ACCAAACTCA ACATGCTTTT CAATCCATTC ACGTCTAGGT TGTACTTTGT GCACCCATTG	300
	AATGTTGTTA CACGTTTAGA TGGAACGCAC TTGCATCTTG CAACTTGTGA CACGNATTGA	360
	AAGTTnCGTG TTTGCGGGGG TTnCAGCGTC GTTTGCCCAT	400
25	(2) INFORMATION FOR SEQ ID NO: 849:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 849:	
	TTTATATGAT TTATTTGAGG AGTTAAGAGA TTTATTTA	60
	GACATCATGC GAATTTGATT TTACAAGAGA AGGTGAATTA AAAGTTTCAT TTGATTATAT	120
40	TGATTGGATA AATTCAGAAT TTGGTCAAAT AGGTCGACAA AATTACTATA AGTATAGAAA	180
	ATTTGGAATT TTACCAGAAA CGGAATATGA AATTAATAAA GTTAAAGAAA TCGAGCAATA	240
	TATTAAAGAG CTAGAAGAAT AAACTATCTT AATGTAAGAC TAAACAATAA AGCTTTGTTT	300
45	AGTCTTTTTA GCGTTTAAGT AAAAAGCAAT AGATACCGTA AAGTTGATGC TCATCAAATA	360
	ATAATATAA GATAATTTTA GGTTTTTAAA CTTTTAATCG	400
50	(2) INFORMATION FOR SEQ ID NO: 850: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 923 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	ALL SEGENCE DESCRIPTION. SEG ID NO: 650:	
5	CAGGCCATAC TTACAATTTT GGCCATCGTC CGGATGTATT nGGAATCGTT GGATAATAAG	60
	CATCAAGGTC GTGACTATTT CGTAAAATTC CAACTGTCCC AGAATTTACA TCATTATGTC	120
	CAATTACTGG GCAACCAGAT TTTGCCAACT ATCTATATLT CATATATTCC AAATGTTAAA	180
10	ATGGTTGAAT CAAAATCTTT GAAATTATAC TTATTTAGTT TCAGAAATCa CGGTGATTTT	240
	CACGAAGATT GTATGAATAT TATTATGAAT GATTTGATAG AGCTTATGGA CCCACATTAT	300
15	ATTGAAGTCT GGGGCAAGTT CACACACGTG GTGGAATTTC TATTGATCCT TATACAAACT	360
	ATGGACGTCC AAATTCTAAA TATGAAAAAA TGGCTGAGCA TCGTTTGATG AATCATGATT	420
	-TATATCCCGA AAAAATAGAT AATCGTTAAA TGTATCATTT AATAAACACA CCAATAAGTT	480
20	GATTTTCCTA ACTTATTGGT GTGTTTTTCA TTTAGCATAC ATAATAGGTT ACATTAAAAT	540
	AACATTTTAT ACCAAAGTAC ACCAAAAGAA TATTAGTACA CGAATTAAAC AACATTTTTA	600
	TAGAAACCTA TTGCACTTTA ACGTCAATAA GTATATTTTT ATATTATCTC TAATTAATTG	660
25	TGCGCGCTTA ATAACAGAAT ATTCTCAATA TTTTTATTTT TTTGTGATTT GTTGGAATAT	720
	TTAGTTGATA AGGCACAATC AAATTTACTT AAACTATTGT ATTAGGGGAA GAAAGGATGG	780
	GATGTATACA TGACACAACA AAACTCCCAT GGAAATCAAA TTCAAGACAT ACCTCAAACA	840
30	GGATTTTTCG GGCATCCTCG AGGACTAGGC GTACTCTTCT TTGLAGAGTT CTGGGTAAGG	900
	KTTAGTTATT ATGGGCATGC GTG	923
35	(2) INFORMATION FOR SEQ ID NO: 851:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 1004 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 851:	
45	TTANTTGCAT CTATTTCAGT TGGTGTAAAG AAAGCGGAAT TTGATTTAT TGAAAAGTTA	60
	GCtCAAGAAA AATTAATCCC CGAATATATT ACAATAGATA TTGCGCATGG TCACTCAGAT	120
50	TCAGTGATAA ACATGATTAA ACATATAAAA ACCCATATAC CTGATAGTTT TGTTATTGCT	180
- -	GGTAATGTTG GTACGCCAGA AGGTGTTAGA GAATTAGAAA ATGCTGGTGC TGATGCTACC	240
	AAAGTCGGTA TAGGTCCTGG TAGAGTTTGT ATTACAAAGA TTAAAACAGG TTTTGGTACT	300

	GCCGATGGTG GTATAAGAAC GCATGGCGAC ATTGCTAAAT CAATTAGATT TGGTGCATCA	-420
	ATGGTCATGA TTGGTTCATE WTTTGCGGCA CACGAAGAAT CACCTGGTGA AACTGTAGAA	480
5	CTTGATGGTA AACAGTATAA AGAATATTTT GGTAGTGCAT CTGAATTTCA AAAAGGCGAA	540
	CATAAAAATG TAGAAGGTAA AAAAATGTTT GTAGAACATA AGGGTTCATT AATGGATACC	600
	TTAAAAGAAA TGCAACAAGA TTTACAAAGC TCAATTTCAT ATGCCGGTGG AAAAGACTTG	660
10	AAATCATTAC GTACTGTAGA TTATGTTATT GTTAGAAACT CTATTTTCAA CGGTGATAGA	720
	GATTAATATT TATAGTAGGT GAKGTAAATT AAAAAATTCA TAGTAACTGT TGTTGCGTTT	780
15	TTATCAATTA TTATCATTGC GCCAnTAACA GAATTTAAAC CATTCATTCA TTTACAAAAT	840
	GAAGTAAGAC AATATATTGA CATTCACATC AATAAAGAAA CAATTTCTGC GGAAAATAAA	900
	TTGGATACAC CGAAGAAACA ACAATTTGCC TTTAATAATA TACAAATGAA CATGTCGAAA	960
20	TCAGATGTTG AGAAAACATT AAATAAACCA AAAAGAGTGA CATn	1004
	(2) INFORMATION FOR SEQ ID NO: 852:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 852:	
	GTTCGCTCCA ATGTACGCAG TTGTATATGC ATAGACACCA AAATCGAACC ATTCCATTGC	60
35	ATTACCGATA CCGGTTGCAA CAACGGTTTT TTTAGCTTTC TTTGCATCCA CCATGTTAAT	120
	ATTCTCTTTA TTAAAATCCA TGAATTCATA CACTCCCTCT TGTATGTTTC ATAATTATAC	180
	GGAGTTAATT AGTTTTGTCA AATTTATAAG AATTTAAACT TTTATATAAA TACCAAAGTA	240
40	TGTTTGTTCA AAAATTTCGC TTTATCGnAT TAAATTCATG GTTTTATACC TCATACATTG	300
	ATTAGACATA ATAATCTAAA CACGACGTTA CTTTGGATAT ACTNAATGGT NNCACACTCA	360
	GTAGGAAGCA CGCATTCGCT CGATAATGTA ACCATACTCA	400
45	(2) INFORMATION FOR SEQ ID NO: 853:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	· .

	GGTGAAATTG TAACTATATA ATCGATATTA CCTTCAGTGT TCAAAACTGG AAAATAATAA	60
	TTACCATCAC TCTTTTGTT GAATTTATAA ATTTTAAAAG GTTCACCAAG TGTATACGAG	120
5	GCTTTCTCTT TATTATAGAT TTTATCAAGT GAAGTAACAT AAGAAAGATA GTCTTTTTGC	180
	GCTAAATTAC GTACGTCAGT AGGAACACTC TTGTCCTCGA CATTAACTTG CACATGCTTC	240
	TTATCTTTTG CTTTGATATT TGAATTGCTC TCAGCGTTTG CAATAGGGGT AACACTTAAA	300
10	GABABATATTA AACTTABAGC TATTABATTTT GGBBBGTTTC TTTTCATATA ABBACTCCTT	360
۳.	T ·	361
15	(2) INFORMATION FOR SEQ ID NO: 854:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 605 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 854:	
25	ACNITATACI AGANAAGNI ATTAAAGIAI ATCIGCITTA CACCAITAAA AAGCGGCAAA	60
	TGCTATAGAT AATCTAAAGC ATCTGCCGTA TGAGNATTTA TTTATTTTTTG ATTGTCATAA	120
	TCGTGTGGTT TTAAATTAAT TGTTTCTAGC TTTACAAATT TTGTTTTGTG AATGATTTTA	180
30	TGAATAAAGT AAATCAACGC TAGAATGATT AAAGGTAAAA AGTTTTTAAA AGCATTTAAC	240
	CATTGATCTT TTAAAATATA TTCAACTGAG CCACCAAATA GCAAGAATAA TAGTGTAGTG	300
35 '	ATGACAATGA TTGGTCCTAA TGGATAAAAA GGTGCTTTAT ATGGTAGGAC CTTATTAGGG	360
*:	TCTTGACCTT GTTTTTTAAT AGCTTGTCGC AATCGTATTT GTGACCAAAT GCTTGATCCC	420
	CAAACAACTA TAATCATTGA ACCAATAATT TCAAGTAAAT TAAAAACGGC ATTTGAATTA	480
40	AAGTTTGCAT AAATAATAAC AATAACAACG ACTGCATAAG TAGTTAATAA TGCTCTTAAA	540
	GGTAACTTAG TTGTCTTGTT TAATTTACTT AAAAATTGGG GTGCTTTTTT GTCTGAACTT	600
	AAGGA	605
45	(2) INFORMATION FOR SEQ ID NO: 855:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 515 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTGAACAAGC ATTTTTAAAT AGTCAACAAC ATCAMGCAAT TAGTGAAGAG GCACAACTTT	60
	TAAATAATCC AGATGAATTA ATGGCATTIT TAAAGAATAA GCGTAAAAAT ATTTTAGAAA	120
5	ATGCATACAT TATGCCGCAT AATATGAGAG AAATGTTACG AAGTTATTTG GAAAGTATGT	180
	CTCAAGACTT TAATGTTGGC GGATTTTTTA ATAAAAAGAA GAAAAAACTA CAAATTCAAC	240
	AACAGCGATT ATTAACAGCG ACAGATGCGT TACAAGAACA TGTTAATCAA CAAATTCGTC	-300
10	AACCAATGCG AGAAGATATG TCATTTGTTA CGCGTTTTAT CAATAAAAAA GMAGCTTCAG	360
	aTAMAGTATT AAATCAGCAT TATGACGTTA AGCCAGAAAT GATTGAAGGT TTATATCAAC	420
15	CACAAACATC AATCAGCAAT ACTTATGTAC TTACATTTTC AGACGAAGTG GTTAAAGCCA	480
	TTAAGAAATA TGTTGAACAA CAATCAACAC CAATT	515
	(2) INFORMATION FOR SEQ ID NO: 856:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1607 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 856:	
	GTCATTTTTA AAATTTCGCA TTCGCGTTTA ATTTTTTCTC TTTTTTCTTT TTCTTCTAGT	60
30	GACATACTTT CTTTAGGTGT TTCAACCAAT TCAGATGTAT CTACATCATC AATTTTAGTG	120
	ATTITGTCTA CATCITICTT TAAATCTTCT GGGACGTTCT CGAAACGCTT ATATTGCTCT	180
35	TTAGAGATAC TAGCAGCTAT TTCATTAGCT CCTAAAATTT CATCTATCAA GCCGAAAGAC	240
	AAGGCTTCTT CTGCAGTAAG CCAAGTTTCT GCATCTAACA TCTGTTTTAA GTGTTCTTGA	300
	TCTAAATCTT TTGCTTTATC TAAATAAGCT GAATTACTAA CAGCATCTGT TTTTTCAAGT	360
40	AAATCCGCTG TCTTTCTTAA TTCTTCTGCA TTACCTACAG TCATAACCCA TGAATTATGA	420
	ATCATTAAAA AACTATTTTT GTGCATAAAA ATAGTGTCAC CACTCATAGC GATAACACTA	480
	GCAATTGATG CCGCTAAGGC ATCGACATAG ATATTAATTT TTGCAGGATG CATTTTTAGC	540
45	ATATTGTATA TTGCATGTCC TTCAAATACA CTGCCTCCAG ATGAATTTAT ATGAACATCT	600
	ATTTCACTGA TGTCTCCTAG TTCATCTAGT TTATTTTTGA AATCTGTAGC AGTTACATCA	660
	CTTTCAAACC ATTTATCACT TACAATATCA CCATAAATGA ATATTTCACC TTTACTTTTT	720
50	GATTTTCTTT TCATTTGAAA ATACTTAGCT TTCATTGACA TTTTTATCAC CACCTTTCAA	780
	ACAPPTERCET AATTCAACTC CCCTCTCAAT TCCCTATAAA TCACCCTTTA ATTACCCCT	

	NACTORN OF A CONCENTRAL NACTOR OF CONCENTRAL PROPERTY AND ADDRESS OF CONCENTRAL PROPERTY ADDRESS OF CONCENTRAL PROPERTY AND ADDRESS OF CONCENTRAL PROPERTY ADDRESS OF CONCENTRAL PROPERTY AND ADDRESS OF CONCENTRAL PROPERTY AND ADDRESS OF CONCENTRAL PROPERTY ADDRESS OF CONCENTRAL PROPERTY AND ADDRESS OF CONCENTRAL PROPERTY AND ADDRESS OF CONCENTRAL PROPERTY ADDRESS OF CONCENTRAL PROPERTY ADDRESS OF CONCENTRAL PROPERTY ADDRESS OF CONCENTRAL PROPERTY AD	
•	AACCACTACG AACTGCTTTA AAGTACACTT CTGCTTGTGT TGCACTATCA GCCCTTAAAT	960
	AAGATTTAAC GTTAAATTTA AAATACCTAT TTTTTTCTCT GTCTGTTTTA GTAAGTAGTT	1020
5	TCCGATTAAn TTCTTCTTCA TACTGTTTGA CGATTGGCAA TAAGGTATGC TGCAAGTAAA	1080
	ATCTGTTTAA CTCTTCATTT TTCGCGAAAT TTGTATTTGA TCTTGCATTT AAGAATATTG	1140
10	AGGGCAATTG AAAAACGTTA GCTACTCTTT CTCTTGTTAA ATTCTCGCTT GCCACTATAT	1200
	CTTCAGAGAC ATATTTTTTA GGTAAAGGTT CGATTTCAAC ACCAGGCTCT TGGAATAATA	1260
	TTCCACCGTT TTCTTCATAG TACTGTTTGA AATCTTCTAA CACTTGTTGC CTTTTTTCTG	1320
15	TACTTACATT GGAACCATAT TTAAGCATAA AAGAATCTGG TTTTTGCATT TCTGTAAGAT	1380
	TAAAGGTTCT TACTGCATTG TCAAAATCAG TTGTATTCTT CAACACATCA ATCGGACTAA	1440
	TACCTTGAAC CATATTAGAT GCCACGATGT GTTTAAAATG CAACATGTCC ATATTATGAA	1500
20	CAATCAATTT ATTTCCAGTT GCAGCATGAA TGGAATAATA AAGTTCACCG TGATTGGTTT	1560
	TCAATTAACA TTTCAACAAC ATCTGGATTT AATAAGAAAA GCTTTGA	1607
	(2) INFORMATION FOR SEQ ID NO: 857:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 857:	
35	ATGCGCATTT AACCGCATTT AGAGATGCTG AAGATCAGTA TAAAGCTTTG TTAGAAATTA	60
	CAACATTACC AGAAGGTAGA ATTTATGTTG CTCGCCAAGA TCAACTCATT GTGGGTTATG	120
	TCACTTTCCA CTATCCTGAT GAAATTGAGC GCTGGTCTAC AGGTAAGCTT CCATATTTAA	180
10	TCGAATTGGG GGCAATTGAA GTCAGCATCA ATTTTAGGCA ATTACAACTT GCAGAAAAGC	240
	TGATACAACT TAGCCTTCTA CACCAGAATT CGAGAATTAT ATCGGNATAA CTACAGGATA	300
	TTACCGGCAT TGGGGGTTTA AAAAATTCCC AGTHAGAGGT ATTHCC	346
15	(2) INFORMATION FOR SEQ ID NO: 858:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATTACTATAA	TGAATCTTGC	GAGATATTTA	GAAGTAATGA	TACAAnATAA	TGGACTTTAG	60
	AATTTmAATT	TACAATAAAT	AGTTCTATGA	TTAAATGTCA	GTTTTATGAC	ATTTATTTAT	120
5	TGAAAATACG	AACGAATGaG	CGATATGATA	ATATAGATAA	GAATGATTTT	AATTTAGGAG	180
	GCCTTTATGG	TGCATAATAA	AAACAATACA	ATTTTAAAAA	TGATCAAAGG	TGAAGAAACA	240
10	TCACATACAC	CTGTTTGGTT	TATGCGACAA	GCTGGCCGTT	CGCAACCAGA	ATATCGAAAA	300
	TTGAAAGAAA	AATATTCACT	ATTCGATATT	ACACATCAGC	CGGAGTTGTG	CGCTTATGTA	360
	ACACATTTAC	CAGTTGATAA	TTATCATACA	GATGCAGCAA	TTTTATACAA	AGATATTATG	420
15 .	ACACCATTAA	AGCCAATTGG	TGTCGATGTA	.GAAATTAAAT	CGGGTATTGG	TCCAGTGATT	480
	CATAATCCAA	TCAAAACAAT	TCAAGATGTT	GAGAAACTTT	CTCAAATAGA	CCCCGAACGA	540
	GATGTACCAT	ATGTATTAGA	TACAATTAAA	CTTTTAACAG	AAGAAAAGTT	AAATGTGCCG	600
20	CTAATAGGAT	TTACTGGGGC	ACCATTTACA	TTAGCGTCAT	ATATGATTGA	aGGCGGACCA	660
	TCGAAAAATT	ACAATTTTAC	AAAAGCGATG	ATGTATAGAG	ATGAAGCAAC	ATGGTTTGCT	720
a <i>r</i>	TTAATGAATC	ATTTAGTTGA	TGTATCTGTT	AAATATGTAA	CAGCTCAAGT	CGAAGCAGGT	780
25	GCCGAATTGA	TTCAAATTTT	CGATTCATGG	GTAGGTGCAT	TAAATGTCGA	GGATTACAGA	840
	CGTTACATTA	AACCACATAT	GATTCGATTA	ATCAGTGAGG	TTAAAGAAAA	ACATGATGTG	900
30	CCGGTAATTT	TATTCGGTGT	AGGTGCCAGT	CATTTAATCA	ATGAATGGAA	TGATTTACCG	960
	ATTGATGTAT	TAGGCCTAGA	TTGGAGAACG	TCTATTAATC	AGGCTCAACA	ATTAGGCGTT	1020
	ACTAAAACAT	TACAAGGGAA	TTTAGATCCA	TCAATTTTAT	TAGCACCATG	GAATGTCATT	1080
35	GAAGAGAGAT	TGAAACCAAT	ATTAGATCAA	GGTATGGAGA	ACGGTAAACA	CATCTTTAAT	1140
	TTAGGACACG	GTGTATTCCC	AGAAGTGCAC	CAGAGA			1176
	(2) INFORM	ATION FOR SE	Q ID NO: 85	59:			
40	+	EQUENCE CHAP (A) LENGTH: (B) TYPE: nu	621 base pa				-
	1	(C) STRANDED	NESS: doub	le			
45							
	(xi) s	SEQUENCE DES	SCRIPTION: S	SEQ ID NO: 6	359:		. •
50	ATTTGGTGCA	TTGGTAnaat	TGACCTGAAA	Gnaaaaagtg	GTTTAGTTGC	ACATTGAGTG	60

1712

nAAGTGCGCA GATGAATTAT GTTGAAAACG TGAGGAAGAG CACCTTTGCT GTTGGTGATG

AAGTAGACGT AAAAGTATTA TCTATTGCTG ATGATGGAAA AATTAGTCTT TCAATTAAGA

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120

	AAAAAGCCGA AGATTTTGAA AAGAAATTAA GCAATTTCTT AAAAGATAGT GAAGATAAAT	300
	TAACTTCAAT CAAACGTCAA ACAGAATCTA GACGCGGTGG CAAAGGTTCA AGACGTTAAT	360
5	TAAAATAAAT AAAGACTGTT TCGATAAGGA ATATATTTAG AATGATGCGT ATCGAATAAT	420
	CGATTGCAGC GTTAGACAAT CTAAGACTGT TTCTTAAATA AGGAGCAGTC TCTTTTATTT	480
	GTAATGATAT AACTAAGACT TATACCATTT TTGAAAATTG TAAAAGTGAG GTGATGTTAT	540
70	GCAGTTAAAT AGTAATGGTT GGCATGTTGA TGACCATATT GTTGTCGCTG TTTCTACAGG	600
	TATTGATAGT ATGTGTTTnn T	621
15	(2) INFORMATION FOR SEQ ID NO: 860:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 544 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	() analysis programmes and re-	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 860:	
	TATATTAGGT ACTIGTGTTG GTATTGTGCC AGCTTTGCTG TCTACTATAA TTTCTAAAAG	60
	GTTTGAACAT ATAAAAGGGA AAGTGCTAGG TGTATTTAAT TTTGTGAGAT ATATTGGAAT	120
30	GACTGTCGGT GCATTATTAA TTGGTATCAT TTCTCAGCCG TTGGTAGCCT TTTACTTCAC	180
	AACTATAACT ATCATGTTAA TAGTAATATT TCTTTATATA AAGATAGTTG ACTTTCAGCT	240
	AAAGTATGCC AAATAAACTT AAAAAAGCAG TGAATCATTT CAATAGATGG AATGATTCAC	300
35	TGCTTTTTGT TTATAGAAAT TTAAAATTCA TGCCTTTATG CTAACAACAA TATTATTTTA	360
	CTCTCTTACG TTTGCCAATG TAACCGTATA GCAAAGTAAA TGACTGCGAT AATGATGACA	420
40	ACATACATAL ACGTGAATAG GAAGGAAGAC CAGTCATCAA CATACCAAAG CTATCGCTCA	480
	AAGTGCGnCT GGTAAATTAA ACCGAATTCC AnGATTGTAG GAACCCNATT AATGGAAATA	540
	ACGG	544
45	(2) INFORMATION FOR SEQ ID NO: 861: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 651 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

1713

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 861:

	AATTTAAAAT ACATTTATGC TTTACCCATT CGAAAATACC TTAATCATTT TCATTTATAG	120
	CATTGTTTGA TTGAAGGATA AAAAGTTGTT GTTTACAATA AAAATAATGA GTATCTGAAA	180
5	TGAGGGATTC ANTATGACAC ATGTGGAAGT AGTAGCGACT ATCGCGCCAC AATTATCTAT	240
	CGAAGAAACT TTAATTCANA ANATTAATCA TCGTATTGAT GCAATAGACG TATTAGAATT	300
10	ACGAATTGAT CAAATTGAAA ATGTCACAGT TGATCAAGTG GCAGAAmTGA TTACAAAGCT	360
10	GAAGGTTATG CAAGATTCAT TCAAATTATT AGTTACGTAT CGTACAAAGT TACAAGGTGG	420
	CTATGGGCAA TTTACAAATG ACTCGTATCT TAATTTAATA TCAGACTTAG CAAATATCAA	480
15	TGGCATAGAT ATGATTGATA TAGAATGGCA AGCAGATATT GACATTGAAA AACATCAACG	540
	AATCATTACA CATTTGCAAC AGTATAATAA AGAGGTGGTT ATATCACATC ATAATLTCGA	600
	AAGTACGCCT CCATTAGATG AATTGCAATT TATATTTTTn nAAATGCAAA A	651
20	(2) INFORMATION FOR SEQ ID NO: 862:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 862:	
30	TGTGAGTGGT AATGACACAC AAGCAGATTT AATAGGTTAT AGTTTTAAGT TTGACGGTGC	60
	GATTTCAAGG CAAGAGGCTT CTAAAGATGT ACATGCAGTT ATATTATCGA ATAAAACACT	120
35	ATATTTATTA GATGTATTAC AAAAATTACC GATAGATAAA ATGAATTCAT TGAATATCCA	180
	TCAAGAAATT ATTGATGAAA TGTCAGATAT CATTTTAATG TTATATCGTG AATATGCAGG	240
	TATGTTTTT AAAAGTCAGA AACTAATCAA CCAATTAAAA AGATTGGAmC AATAACATAA	300
40	AATAATAAAa GGTATTCAAG TAGCCACATA GATGTGTTTA TTTGAATACC TTTTKGAATA	360
	GaaAAGaGAT ACTGGCAATT TTACTAACCA GLATCTCTTT T	401
	(2) INFORMATION FOR SEQ ID NO: 863:	•
45 50	(2) INFORMATION FOR SEQ ID NO: 863: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 863:

AATGCCAC			•			30
AATTTATTCA	GACACCAAAA	TTTAGTATCA	GAAATTTAAT	GTCGGTATTT	TTTCAGCTTT	300
ACAGTTGATT	AAGTAAATCA	TTTAACAGCG	AGATTATnCA	ACCAGGGGGA	TGACTTAATG	240
TTAATTTTAA	TTAGATAGAG	TTGCTTTGTG	TTTTTAACGC	nGATGCTACT	ACTTATCTTA	180
ACAAAGTAAT	CAATATGTAA	TATAAAATAC	ACTGGTACTC	AATATATAAT	GATGATAAAA	12

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1827 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 864:

60	GGAGTTGCTA	GGAAAGATGG	ACGTTAATCT	CCTAACTATG	TAAACGATGA	TTCTACATCT
120	ATTATTGACG	AGTTATGAGT	AAGATAAAAA	GCTTGGGATA	GAAATTTAAA	GTATGATGTT
180	TTCAATGAAG	TTATAAAAGT	TTTCAACAGG	TACATTTTGA	TAATAGTGGG	AAATCGATTT
· 240	TATGAAGGGG	TGTGGAGATT	ATGTGCACGG	GGATTTAAAG	ACAATACACA	TAAAACTATT
300	GAAGGAGCCT	CGAGTTTAAA	TAAGTTTTAT	TCGAGAGAAG	AGATTGTTAT	ATATTGTTCA
360	ATTATTGAAA	AAATGACGAT	TACTAAGTGA	GTAACTGAAT	TTTTAGCAAT	TTTATATAAC
420	CGTTCACCTT	TATGAGATGA	TATTGGAGGT	AATGAGATGC	TATTTTTGAA	TTGTTGGAAA
480	ATAAACTTCA	AAGTTATTAG	TAACTCTAAC	ATCTTTGTAC	CAATATAAAA	ATCAGATGAA
540	TTGGGGATAT	GATGAGCTTA	GAAGCAACGA	AAGAGTACAA	AAAGATCGTG	CAAAGCATTA
600	GGGATAGGTA	GCAAGCGCAT	GGAGAAGAAA	ACAAAGAACT	CGAGATTGTA	AGCGAAGTTA
660	AAAGAGTTAA	AACGATGATG	CGAATTCGGT	ATTTAATAAA	GTTGAAAAAG	TTGCAAGAGC
72	AATAATCGCG	GACACAAATG	TATGGAGGAT	ATAAAATTT	GAATTAAACA	ATTCGGAATG
780	ACAGAGGGGT	CGGTAATGAC	GTGCGTATAA	ATTAGTGCTA	ACAGTCCGTT	AAAAAATCGA
840	ATACTTGAGG	GTTTGATGAA	AAGCGCAAgC	GTGTATAAGA	GATTGAGGAC	TGCTAAAAGA
901	GAAGCAGTAG	TGAACTTGAT	AAGAAGGTAT	CATTCAGTTA	TGCTATTCAA	GAATGACAAA
96	GACTAACACA	ATAGGAAAAT	ATGAGGAGGA	GTCTATAAAT	AGGTCAAGTT	GGATTATGGC
102	TAAGACGGAT	AACGAAATCA	AGAATGCCCG	aAAAAATGCT	AACTATTATC	TTACAAGTAA
1086	AAAAGCAGTG	AACCACAAGA	GTCGTACTCG	AGCTGAAACT	ACATATTCTC	GCAGGTTATG

	AGTGGTGTAA	GTAGTAAAAC	GTATTTAGTG	ATTGAAACAG	GCAAGATAGA	CGCGGGATAT	1200
5	CATGGCAATT	TAGGGATTAA	TATCAAGAAT	GATGAAGAAC	GTGATGGAAT	ACCCTTTTTA	1260
5	TATGATGATA	TAGACGCTGA	ATTAGAAGAT	GGATTAATAA	GCATTTTAGA	TATAAAAGGT	1320
	AACTATGTAC	AAGATGGAAG	AGGCATAAGA	AGAGTTTACC	AAATCAACAA	AGGCGATAAA	1380
10	CTAGCTCAAT	TGGTTATCGT	GCCTATATGG	ACACCGGAAC	TAAAGCAAGT	GGAGGAATTC	1440
	GAAAGTGTTT	CAGAACGTGG	AGCAAAAGGC	TTCGGAAGTA	GCGGAGTGTA	AAGACATCTT	1500
	AGATCGAGTT	AAGGAGGTTT	TGGGGAAGTG	ACGCAATACT	TAGTCACAAC	ATTCAAAGAT	1560
15	TCAACAGGAC	GACCACATGA	ACATATTACT	GTGGCTAGAG	ATAATCAGAC	GTTTACAGTT	1620
	ATTGAGGCAG	AGAGTAAAGA	AGAAGCTGAG	CGCAAATACG	AGGCACAAGT	TAAGATAAGG	1680
, *	AGAGATGGAG	ATGCCAAAGA	AAACGGTAAC	GATTGATGTA	GATGAAAACT	TATTAGTAGT	1740
20	AGCTAGTAAT	GAAATATCAG	AACTATTATA	TGAaTATGAC	AGTGAGTLAA	TGTCAGCTGG	1800
	ATGGAAGATG	GCGATAATAG	GGATATC				1827
25	(2) INFORMA	TION FOR SE	EQ ID NO: 86	55:			
	((A) LENGTH: B) TYPE: nu	RACTERISTICS 1379 base pacteic acid DNESS: doublest linear	pairs			
30	•						

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 865:

TC	AATTGCAT	CATCATATGA	AATTCTaGGG	AATGGTGTCG	CAACTTTTTC	AAGTTTTGAT	60
GT	ATCACGCT	CTAAAATTTT	CAACTCTAGT	TTACAATTTT	CTAAAACTGA	TTTTACAACA	120
TG	TGTTACAT	ATTGTTCTTG	AATTTCTAAA	CTTTCAGCAT	GATTTGTGAA	AGCCATTTCT	180
CC	TTCAATCA	TCCAGAACTC	GATCAAGTGT	CTACGTGTTT	yTGATTTTTC	AGCTCTGAAA	240
GI	TGGACCAA	ATGAAAATAC	TTTTCCGTGT	GCCATTGCTG	CAGCTTCTAA	GTATAACTGA	300
CC	ACTTTGAG	ATAAAAACGC	ATCTTGATCA	AAGTATTTAG	TATGGAATAA	TTCACTTGTA	360
CC	TTCTGGCG	CACTTGCTGT	CAAAATTGGT	GGATCAACCT	TTGTAAATCC	ATCTTTGTTG	420
AA	AAATTCAT	ACGTTGCACG	AATAACTTCA	TTTCTAATTT	TCATTACAGC	ATGTTGTTTT	480
TI	AGAACGTA	ACCATAAATG	ACGGTGATCC	ATTAAGAATT	CTGTACCATG	ATTTTTAGGT	540
GT	AATCGGAT	AGTCATGCGC	TTCTGAAATA	ACTTCAATTG	ATTTCACTTG	CATTTCGTAT	600
CC	TAAGTCAG	AACGATTATC	TTCTGTAATT	GTGCCTGTAA	CGTATAGAGA	TGATTCTTGA	660

٠	TGCATAAAGC CTGTTCCATC ACGTAATTGT AAAAAGGCGA TTTTACCACT TGAACGTTTA	780 -
	TTTGTTAACC AAGCACCAAT TGTAACGTCT TGGTTTAAAT GATCTTTCGC TTGTTTAATC	840
5	GTTGTTTTCA TAACCATTCT CCTATTTATT TTTTCGKTAT ACAATACTCA TTCATTTTAA	900
	CAAAATCCGC TTTCAAGTTC TAGAACTAGA CTAAAAGATA ACGLGTAAAT GGTAATGATT	960
10	TACGCACAGA TTTGAACATT AATTTATATT AAGACAATAC AATCATCAGT TTCAGACAAA	1020
	ATATATAATA AAGCCTCAAT ATTATTAGTA TGAAGGTCGT TTTTTGTnCT AACATTCAAG	1080
	TTTAATTATA AAACTCAAAT TTTGACGACC AAACAAAAAT TCTTGTAACA GAACATAGCA	1140
15	CATGTCATGT CACAAGAATT TTACTTTGTA TTTCACTTTT TCTTTTTTTTTT	1200
	AATAATTTTC CAAACTGTTG AATGTCGCCT TTTTTCTGAC GATAATTTTC AAGTGTTTGT	1260
	TCAAAAAAGT TTTTATAATT ACTGTTTATG AGTCGATCAT CAAATGAAAC TATTATGCCG	1320
20	CGATCATTTT CATTTCTAAT TAATCTTCCA AGTCCTTnGT CTANAACGTG TAACTGCAT	1379
	(2) INFORMATION FOR SEQ ID NO: 866:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 450 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 866:	
	TTACAACGAA TAGTTCACCG TTCGAGTCTA ATCTATGTAA TGCTTGCTCG AATATACGAT	60
35	GCACGGTTTC TTTCCCTGCT CTTATTGGTG GATTGGTTAA AATAAAATCA AAACTTTTGT	120
	CTTCCACAGC AGACAAAGCA TCACTTTCCT TTACGATCAC ATTATCAATA CCATTTAATT	180
	TTTTGTTTTT TTCAACTAAG GCTAGCGCTC TGTGATTAAC ATCTAGCATT GTAATTGAAT	240
40	GATGTGGTGA TACTTTAGCA ATCATCAAAC CAATTGGTCC GTAACCACAA CCAACATCGG	300
	CAATTCGCTT ACTTGGACCA GGTGGATGCG CTTTTAAAAA AGTTTGAACA AGAACATCTG	360
45	AACCATAATC TACTTTALCL TTCGAAAACA CTCCLTATCA GTTATTAAAT CAATTTTATG	420
40	ANGGTTHTAA TTGGATATTG AGTACGTTGT	450
	(2) INFORMATION FOR SEQ ID NO: 867:	• •
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 867:	•
5	AATGTTAACA ATATAGCACC AATTAACCCC GACATGATAA TAACGTGTAA TGTTTTATTT	60
5	CCTATTAATT GTCTCGCAAT ATGAGGTGCA ATTAATCCTA AAAAGCTAAT ACCACCGACA	120
	ACTGAAATTG CGGATCCTGC TAATATTACT GCTAAAATTA ACAATAGCAT TTTAATAGTT	180
10	TTAACTTTTA AACCGAGTGC GGTTGCAACA GCATCACCTA GATTCAATAC ATCTAATTGA	240
	TAACTCCATA AAATGATGAT GGATCGTTAT TAAAACCAGG GAATATAGAT AATATCCGCA	300
	TATCAGGCCA TATAGCTACC TGTCACCAAC AGGTTTnTGC TCCANGGTTC TnTAATAAGA	360
15	CGCACACGCG ACAATGCGCT TGCTACCATT AGGCAGCTTG	400
	(2) INFORMATION FOR SEQ ID NO: 868:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
?5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 868:	
	AATCCHTHAA GTGCCATAAC ATCATCTCCT AACATCTTTA TTATACATCA ACATTTTATA	60
30	AAAATAACnT CTTATGATAA AAATGAAAAT ACTAATTTTA ATGAGAGCGT CTTAAGCCGC	120
	AATTGATAAA ACATATGCTA CAATATTTTT AAACACTATA CAGGAGGTAC TCTATGACAA	180
	AATATACATT TAAACCTAAA GATTTCAAAG CGTTCAACGT AGAAGGCTTA GACGCACGAA	240
35	TGGAAGCTTT AAACGAATAC ATACGACCAC AACTCCGTGA ATTAGGAGAA TATTTTAGTG	300
	ACTTCTTTAC AAGTCAAACT GGTGAAACAT TTTATCCTCA CGTAGCAAAG CATGCTAGAA	360
10	GAAGTGTGAA TCCTCCTAAA GATACATGGG TTGCTTTTGC AACAAACAAA AGAGGCTATA	420
+0	AAATGTTACC TCATTTCCAA ATTGGTATGT TTGAAGATCA ACTGTTTGTT ATGTTTGGAA	480
	TCATGCATGA AGCAAAAGAT AAAGCAACAC GTGCAAAAGT TTTTGAAAGA AAATTTAAAG	540
45	CTATTCAACA ATTACCTGAT GATTATCGTG TTTGCTTAGA TCATATGAAA CCTGATAAAC	600
	CATTTATTAA AGATTTAACG GATGATGATT TAATAGAAGC GATACAAAGA GCCATCAATG	660
	TGAAAAAAGG TGAATTCTTT ATAGCGCGTG CAATCACACC ACAAGATAAA AGATTAAAAA	720
50	GTGACAAAGC ATTTATTGCA TTTTTAGAAG AAACCTTCGA TCAGTTCTTA CCATTTTATT	780
	CTGCATAAAT AACTTTGTTT AAATAATAGA GCACTTAATC ACATCCATGA TTTCGTGCLC	840
	TTTTTTTTA ATATTAAATC GAACGTECAA CATAATAATT CATACTTTTA AAAAAATTAA	900

	GGTGAGTCAA AATGAATAAT AAACGACATT CAACAAATGA ACAATTAAGT TTAGACGAAA	1020
	TAAACAATAC AATTAAATTC GATCATCGCA GTTCAAATAA ACAGAAATTT TTATCATTTC	1080
5	TTGGACCTGG GTTATTAGTC GCTGTTGGTT ACATGGATCC CGGAAACTGG AT	1132
	(2) INFORMATION FOR SEQ ID NO: 869:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 418 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 869:	
	CTCAATGTAT TGACTGTGAT TTGGAGTGTA TAATGCTACT GTTTTGTCTA TAGCCATCGC	60
20	ATCAAATATT ATATTTGAGT AATCAGTGAT AACGACATCA GACATTAGAA TTAAGTCTTG	120
	AGCACTAAGA TACTTTGGTG CAACAAGCGC CTCTTCTGGT AAGATCGCTT CATCAACACC	180
	CTGAACCACA ACATGATAGG CTTTGAATAA AGCATCTGAT AGTGGTAATT GTTGCGCACT	240
25	CACTAATCCA ATAGGTGCGT ATAATAAAAC TGGTTTTTGA TCATTTATTT TAAACGATTT	300
	CTTATACTGT TGTTGAGTAG TACTTTCGTT ACTCTTTTGT AGTAAATATT GGTGTTTAGG	360
30	ATTACCATAA GCCAATACAT TGCTTGGTGA CTAGGAAAAG nCGTTTGATA AAAGGGCT	418
	(2) INFORMATION FOR SEQ ID NO: 870:	
<u></u> 35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 587 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 870:	
	GAGTHTGTTA CAGTAATTGA TTTTATTGGT AATTHTAAGA CAAATTATTT AATTCCGATT	60
45	GCGCTTTCTG GGGATCAATC GCAAnATAAA GATAATTATA AGAAGTTTTT AACGAATAAC	120
	GATTCGATTA ATGGAGTATC TACAATTAAT TTTGAAGAAG TTGCTAAAAA ACAGATTTAC	180
	AATTCATTGG ATGCAGTATC ATTAAATCAA AATAAATTAA TATTAAAAGC TTATGAAGAA	240
50	GTTGAAAATA GATTGGGACA CATGCCGTTA CTAATGGATT TCATACAACA ACATTCTATA	300
	GATCCAAGCG TTATATTTTC TAAATTTAGT AATTATTACG AGTTCTTAGT GAGATATAAA	360
	AAAATAGATA CATTATTGAC GGAAAATGAA TCTAAAAATC TGGTTTTCTT TTCAAGGCAA	420
<i>55</i>		

	TTAACATATG ATGAATTAAA AAATAAAATG TTGAACGAAG TTAAGGATAT AACAGAAGAT	540
	GATATAGATA CTTCATTAAG AATTTTAGAT TTTTCATTTT ACAACGC	587
5	(2) INFORMATION FOR SEQ ID NO: 871:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 971 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 871:	
	CTACTAAACC AGGTAATCGG TAGAATCCAA GCAGGAATAA ATAAATTAAT GCNACACCAA	60
	TAAACGATGC AAACACAGTn TTATCTAATG CATCTTGACC AAATTGGGCA CCTACTGAGT	120
20	TTGAATAAAT TTCTTTCAAG TCAACTGGTA AAGAACCTGC ATTTAACAAT KCGCCGATTT	180
	GTTTTGCTTT TTTAACGCCT TCTTGTCCTT TAAATCCACC CGAGATTTCT ACGCTATCAG	240
	AATTGATTGG TTGATCAACA CTTGCTGCAG AAATAAATTT AGGGTTTTTC TTTTGTGCTT	300
25	CTTTTTTATA GCTGTCACCT TTTTTGAAAT CTAACCAAAC AACCATGACA TTATCACGTT	360
	TCTTAGAGAT TTCTTCCGTT ACTTTTTAA ATTTGTTTTT GTCTTTTACT TTAAAAGTAA	420
30	CTGTAGGCTG GTTTGTTTCC tGtTTAAATT CTTGtTTGGC AGATCCCTGT TTAATATCAG	480
	AACCGCTTAA TITTACTTTA TCTTCTGCAT CGCGAATTGT TAAATTAGCT TGAGAAGATA	540
	AAATTTTACG TGCTTCATTC TGGTCTGTTA CACCAGCAAG TTGTACTCTA ATTCTATTAG	600
35	GTTCTTCAAC TTGAATTTTA GGTTCCGAAA CACCTAAAAC GTTAACACGA TTTTCTAATG	660
	TTTGCGCTGT TGATTGTAAG GCTTTTTTAT CTATTTTGTC GCCTTTATTT AAAGGATCGA	720
	CTTGATAAAG CACCTCAAAT CCACCTTGCA AATCAAGTCC TAAATTGmCA TTCTTTATAA	780
40	CACTTTTATA AGTTGCAGCC ATTCCGGCAA ACAACAATAC GACTAAAAGC AAGAACGCAA	840
	TTATTCTACT ACTITTCTTC ACATGAACAC CTCATTATTT ACGTATGTAT TTAGAATACT	900
45	TGAATACTAT TTTATAACGC AAGTGAAATC TTTCTTACAA AATTTATTAG CCTTATACAT	960
45	ATTAACATAC T	971
	(2) INFORMATION FOR SEQ ID NO: 872:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 636 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 872:	
	CTGGTTAACA ACATCTGGTT CGGCATCTCC TTAGCTTCCA CTAAATCTTG GATGTCTTGG	6
5	nnatcttgcg caagtngtgc tttggcttgt tcaattecty ctttagtcat cgcattgtta	12
	ATGCCGTTAT GACCTTGTTG AAGTATTTGA TTAATACGAT CTTTAAGTGC TTGTTTTTCC	18
10	TTATCTGTTA GATTTGGATT TCGATCAATT TCGTCAATTA ATGCTTGAAC TTGCTTATCA	24
,,	ACGTCTTTAT TGGCATCAAT TTTTGCTTTT GGTATTTCAT TGGCATGCAC TTGTTCAATC	30
	GCGTGGTTGC CTGCTGTTTG AACTTGAGAT ACAGCCTGAT TACTTGTTGC TTTATTAATG	36
15	TTGTTGATGA TGCTGTTTGC CAATTCTTCT GCTTTATTTT TCGCAATAAG CTTGTCTTGA	42
	TCCGTCGCAT TTGAAGCTTC GATTTCTTTT AGCTTATTAG CTAAAGCTTG ATTAATAGAT	48
	TGAATTGCCT TGTCTTTAGC ATCTTGTAGT CGTTGATCAC CATTAAGATT ATGGATTGCA	541
20	TCATTGACEG CTTGGATTGC GCCATTGATA TCATTCACAT ETGTGTATCA CTATTTAGCA	60
	ATGTATTTGC TAGACGTTgG CATCATCGAA GTTTGT	63
	(2) INFORMATION FOR SEQ ID NO: 873:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 659 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(with groupings pregningson, one to we are	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 873:	
35	CTCTGAATGC ATTCATTAAA CGCTGGGTCT CTTTATATGA AACGTATTTG TCATTTTTAG	60
	AACTCAATCC GTAAAAATTG TCAACTTTCT TTTTAATATT ATCGTAATCA ATGGTTACAT	120
	TACTTAAATC AATATCTAAA TCTATATTTT CTGCATCTTC TTTAAAGCCC GCTATACTGA	180
40	AAAAGCCTTC AATCGGCTGA TCAATCATTT CAATATATTT TAAAGCTGTG ATTGAACCTA	240
	AACCATGTGT TACAAAATAT GTATCCTTTT TGCGTACATT AATTTGTTTC GTCATAGCTT	300
45	CAATCCACTG ATCCACTGTC TTCGCTtCAG GGGATTCAAA ATTAAATAAT GTTACGTCAT	360
43	ATCCTTCTAA AGTTAAGTTA TGCTCCAACC ACTGATACCA ATGATTTCTA CTATTTCCAT	420
	GCATAGAATG TACAATALTA CATCTGTCAT CTCATTCTCT CCTTTCAACT TACTACTTCT	480
50	TTTCTATTTT TAAAAAAATG ACTGATTACC TATAATTGTA AAATAAAAAC ACCTTAATTA	540
	GAAATGTTAT ATCGCAAAGT GACATTTCTA ATTAAAGTGT ATTGTCATCA TTTCAATATC	600
	ATTCAAAAAC AGCTAAACCT TTGTCTCTGC TTCAATTTCA CAAAAATAAT TCCCGCTGA	65

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 874:	
	AAAATAAAAT CCATTTTAGT ATTCGTAGAA AATGAGAGCC CCCTTTACCA CAATATGTAA	60
	ATGTATATTG TGAAAAGGGG GCTTTTATTT ATGACATAGT TGTTCAACTC ATACATTCAG	120
15	TTGATAATGC AGTGCGTTAT GCAGCTATCC ACTTCATATG TATGGCGCAT ACTTGATATA	180
	TGAATATCAT CAAGATTTTA AAAGTATCGC TAATTTTAAA GTCTTAAAAC GCAGATTAAT	240
	GGTCATGATG TGTTAnTGCG TTTTGGTTTT TAGAGCCACG TAATTCCCAn GGACATATAG	300
20	GAGGAACCAT TCCAC	315
ě	(2) INFORMATION FOR SEQ ID NO: 875:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 482 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 875:	
	TACACGACCT TGTAACTCAG CTGCTTTATA AGCTAGGGCG ATGTTATCAA AGTTGGATGT	60
35	ACTITGAGCT TGGCATTTCG TTAATACTTT TAACGAAGGA TTTAATATAT GTCTGATACG	120
	TATATATGA TTATATTCAA TTCTTaATTt GGATAAGATT GCTGATAATT TGAAGCAATC	180
	GGAGCTAAAT GGATCGAAAA ATGAATAAAT TTCGATTTTA CTTACAGGTG ATAGATTGAT	240
40	ATCTTCACGA CTCTTATTTT CCATTAWTCG TAATTCTCCA GCCATGTTTA TTCACCTACA	300
	ATTAATTTTA GGAATTCACC ATATGATTAG CAGTTAATCT TAAGCGCTCA AATAAATAAT	360
45	CTCCAACACC TTGTGGAAAC caGCGCGATT AATTGCTGTC TGCATATTTT CTAGCCATGC	420
40	ATCTCTTTCA AATTCAGTGA TTGTAAAATC TATATGTCTT TTTCTTAGCA TAGGATGTCC	480
	GT	482
50	(2) INFORMATION FOR SEQ ID NO: 876:	
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 670 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 876:	
5	ATGCAATTGA ATTCTTAAAA GCAGAAGGCT TTGATGATAT TGAATGGGGC GAAGATTTTG	60
	GTGCGCCACA TGAAACAGCC ATTGCTAATC ATTATGATTT ACCGGTGTTT ATTACTAATT	120
10	ATCCAACTAA AATTAAGCCT TTCTATATGC AACCAAATCC TGAAAATGAA GAAACTGTAT	180
	TATGTGCAGA CTTAATTGCA CCTGAAGGAT ACGGTGAAAT TATTGGTGGA TCTGAACGTG	240
	TGGATGACTT AGAATTGTTA GAACAACGCG TTAAAGAACA TGGATTAGAC GAAGAAGCAT	300
15	ATAGTTACTA CTTAGACTTA CGTCGTTATG GTAGTGTGCC ACACTGTGGA TTTGGTTTAG	360
	GTTTAGAGCG TACAGTAGCA TGGATTTCTG GTGTTGAACA CGTTCGTGAA ACAGCGCCAT	420
	TCCCAAGATT ATTAAACCGT TTATATCCAT AAGTTTTAGG GTCGTTACTT AAAATATATA	480
20	TTATGATAAT AAAAAGAATC GTCCAGCCTA TATTAATAGC TGGGCGATTT ATTCTTGGAA	540
	AATGAAGATT GATAACGGCT TATATTAATC ATGAACAAAC TTTTGTTTAG TAACTATATT	600
	TGGAAAATAA ATAGTTCATC TGATTATCCA TAAAGTTCAT TGTTAAAATC TAGTGTTAAA	660
25	AAATACTGTT	670
	(2) INFORMATION FOR SEQ ID NO: 877:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 877:	
	TGCAAAGTAA ACTGGATGGC TnTCTTGCCG CCAAGGATCT GATGGCGCAG GGGATCAAGA	60
40	TCTGATCAAG AGACAGATCC TAACCTCTCA TTTCCGATAA GTTTAGTATG TATTATAGGT	120
	GATGATINIC TIGITITCAA CCTTATACAC AATATITTIG ANATITATAT TATATICATA	180
45	TAAGGAAGGC GATTAATTAC GATTCATCAT TATATCTCTA CGTGTTAATT TATTAACCtA	240
43	TACTATATTT ATCAACACAA CAGTTTTTCC TTTCATTTTC AAACATAACA GAAAAAGCCT	300
	GAGACATACT TAGTCCCAGA CTGTTCTATA ATTAATTAAA GATATAACAA GGTTAATCAT	360
50	TCAAAGCTAA CATCACATTT ATTCACTGTA ATTTTTCATA AAGAATAATA ATGACTGTAA	420
	TTCTATACCT AAGTCAATTT GATGTACTTG CACATCTGAA GGCGTATTAA TTCTACCAGG	480
	AGTGAAGTTT AAAATACCTT TCACACCAGC TTGGACGAGT TCATCTGCAA CTTTCTGTGC	540

	TAATTCATCG TTATCTTTAA CAATAACGTT CCCTATTTTC TGGCCAATAA CATCTTCTTT	660
	TACGTCAAAC GCTTCTGTAA TCGTCATATC GTCATGTATT GAAAAGTTAT ATGTGAGCAA	720
5	AGCTTTCCCT AGGTTCCCAA CTCCGACAAT TGCGATTTTG ATCATGTCAC TCTCGCTTAG	780
	TTCAGATTTA AAGAAATCCA ATAAACTATC TATATTATAT	840
10	TTCGCCAAAA TATGAAAAGT CACGACGAAT TGTtGCCGAG TCAATTTGTA ACGCATCGCT	900
10	AATCGCTTTT GAATTTACAC GATCTATACC TTTAGATTTT AATGAACTGA CAAATCTATA	960
	ATATAACGGC AAACGTTTTA AAGTTGCTCG AGGAATTTTA ACTTGGTCAC TCATTCGCTA	1020
15	TTTCCTCCTT CGTGTTTGAA TGAATTATAT CTATGTATTC AAACGAGTTA GAGCGTAATT	1080
	GTTAGATTAT TAAAALACAA ATAATTGATT ACAATGAATA CCTAAATATT ATACATTAWT	1140
	GAATTTTAAA AATAAATATC TTAGTTTCAA GACGGCGTTT TATACTGTAA AATGGTTATT	1200
20	AATGTAATAA TTACGCTTGT TTCATAAGTT AATAAAATTT GAGAAGACGA AGGTGAAG	1258
	(2) INFORMATION FOR SEQ ID NO: 878:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 546 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 878:	
	AAACAATCCC CNCCAAAGTA ATTCCACCAC TAATTGTAAA TAACTTTGGA AAGGATGTTG	60
35	TTTGTmATTC CCATGGACAC ATGCCATCTm ATTTAAGTTT TATACTCTAT TTTTCTGATG	120
	TCTTGATTAA TTGCAAGCGG TCTTGCGAGC CTTGTTCAAG CTCATATTCT TTATCTACTT	180
	GCTTACCGTT TTCryTTATT AATCTTACGG TTGCGGTAAT CTTATCACCA TGTTTTTCAG	240
40	CATCTATAAT TTGTGGTGAA CTAATCATCA TTAAACTTCC TTTAGATACA CGCTTCTTTA	300
	CATCATCATA AAAAGATGAT CCTTTTTTTA TATATGATGA TACAAAATCA AAATCCGACT	360
40	GATTAAACGC AGCATTATTC GCTAAAGAAT ATCCAGCAAA GAATTCTATC AATTTGTTCT	420
45	TCAAGCTGTT TTCTTCTTTT TCTTTCTTTT CAACATAGTC TTCGATATCT TCACTGTCAA	48
	AATTCAAAGT TATCTCTGTA TTGTATTTTA AATCGCTAAG CTTTAATCGT CTTCGTCTGT	54
50	GATGTA	54

(2) INFORMATION FOR SEQ ID NO: 879:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 870 base pairs

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 879:	
	TTTATGAATT TTTTATGTAA CATTAAATAT TCTTCTGGCA ATCTTCCtAC TATKTCTKTT	60
10	ATATATCCTT CTTCTCCTTC TTTAAATACT AAACCTGTGG GAGTTAGTGT GTTATACCTA	120
	ATTTCTATCT CATTCAAATG ATCATTCAAA AGGTCAAAAA ATTCTCTATT AAAATAACCC	180
	CATTTCCCAT TTTGTAATAA ATATTTCTTT CCATCTTCCA TTTCAACTTC TGCATGTAGT	240
15	ATCGTTTTTA GTAGCATATT ATTTGAATGC CCCAAATTAT CKATCACKTC AATTCTGACA	300
	TCATTTATAG AATTAACGTC ATATTTTAAT AAGTAATCTC CTATTTCAGT GATGTAATCA	360
	ACTTCAGGAT CAGTCGCATC AAATGTCTCT AATGTATTAT TTTTAAAAGA ATTTATATAT	420
20	ATATTGACGT CGAGCATATC ATCTAACAAG AGTATCATAT TACTTAGTTC TAAAAAATCTT	480
	GATATATCTA TAGATATATT TTCTGTAGTT GAAGAATTCG ATAGTTTTTT TAGCAATAAA	540
25	GTATCTAATA CTTCTATTTT ATTCAAGTCT TTTAAAGTTA CTATTCTAGG AAATTCACTA	600
25	ATTTTTTGAG GAAGATTAAT AATAGCGTTT ATTTCTTTGA TTATCACACT AATTTTATCT	660
	ATGAATTGCT GCTTTCTATT CGGLACACGC AATGAAATAC TTGTACCACA AGTCCATTGL	720
30	TTTTCCaAAA ATTTGAGGAT TCTGTGGATG tCCTTGGACT GGATATATAA GATTCTGAAG	780
	GTCTAACGTA ATCTACACTA TTCCTTCTAT AATTAACAAT CTCTTTAAGC CTGTTTTGTT	840
	GAAAAAATT AACATTTTTA nTAACTAnGG	870
35	(2) INFORMATION FOR SEQ ID NO: 880:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 880:	
43	GGTTTACATC TTTATCAACT GTAATTTCAT TGACATCTTC ATTCATATTT AAAACACCAT	60
	TAAATGTCCC TGAATATTCA CTTGTTTGTT TAACTGTGGC AGTGACTTGT CGTTACCATA	120
50	TGTCATCATA TATTGTGCAA ATGTTAAAGT CCCCATTGAG TTGACCGACA AAGTTGAATT	180
	TATCGAATTG TATTCAGATT GTAAACTTAG CAGACATTTT TAACCACGAG CATTCTTATC	240
	CAAATAGnCC TTGTCTGTTA TTTTCAAGTC AATTTTCACA ATAGGATCAC TGCATCTTTT	300

	ACCCTCTTTT TCTGCTnCTC ACATAACTTT CAGATGGACT	400
	(2) INFORMATION FOR SEQ ID NO: 881:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(6) 10102021 2111012	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 881:	
15	AAGATATTGC GAAAAGAAGT GACAGTAACA GAGGAATTTC AAAATTTATT CAACCATATA	60
	TTGAAAATTG ATGAAATGGT GCATGCAAAT GAAGCGCGTA TTGCGTATGA AGCAGACATG	120
	CGAAAACCTT TATATAGTAA ACGCATTTAT CAAAATTTAA CATTAGACTC TATTGTTTTT	180
20	AGAAATACAT TGAGATATAC AGCGATTATG ATGATAGCGG ATATTTATTG CGTTAATGTT	240
	TGATTTTGAA AAAGCATCCT GGATCCCGTT ATCTGCACAT CCAnTATTCC TAGGGCCATC	300
	Ancetatace atgreaters agagaggtat ggn	333
25	(2) INFORMATION FOR SEQ ID NO: 882:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 617 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 882:	
	ATTGAAAGAA AAACTGACGT ACTTATCCGA TGATAAAATG AAAGAAGTAG ATAATGCACT	60
	AATGATTAGT TTAGGGCTGA ATGCAGTAGC TCACCAGAAA AATTAGGCGT CTATTATATG	120
40	TATTTTCAG AGATAAATAA AATATTGATA TAAAAGACAA TAACTTTATA ATAATTATAA	180
	CTATTTCTAA ATTCTGTACG AAGAATTTTC TTATAAACAA AGATTTTAGC AAATACCAGT	240
	TATGATATTC ATATTTTTA TTATAAAAGG ATGTCTTAAG TTTTTTAGGC TTTAGGTATT	300
45	CCATCCTAAA GTTTTTTTAG CTTAAAAGTA TCATCTACAG CAAAATTGCA AACGACAAAA	360
	TTGATAAGTG CAATTAAATA AATGTTAGTA AGTGAATCAT AATTATCCTT GCTTAAGCAT	420
50	TTGCTTTGTA AGGGAAGTGA GGAGGCAACT AATCGTGGAA GAATTTAAGC AACATTATAA	480
-	GGGTTTAATT GATGAAAGTT TAACGTGCCA AGATAAAGTA GAATTGATAA AAAAGTGTGA	540
	GAAATACACT GACGAAGTGA TTCGTAAGGA CGTCTTGCCT GAAGACATTG TCGATATTCA	600

(2) INFORMATION FOR SEQ ID NO: 883:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 583 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 883:	
	GTTGTATTAA AATTTTTCAA TTTAACAACG AAACAATACG AAGAAAAACA TATTACTGAG	60
15	CCACTGGAAT TGACGAGCTT ATTAGGTANT ATTTCTCGTC TAGACAATGG TCATTTTGCA	120
	CATTTGCATG CTACTTTCGG TACTCAATCA TATGAAACTT TTAGCGGACA TCTCGCTAAA	180
	GCAATTGTTT CTGCAACTGC TGAAATCATT CTTACTGTAA CTGATTTGGA CATTCAACGT	240
20	TCATTCAAAG ATGCAGTCGG TTTAAATTTA CTTGATCCTC AATAGCACTT TACTTTTTAG	300
. •	TTGAATCAAA TITTATTACA AGTTATCATA AGTGCTTAAT CATAAATGCA TTCTCGTTTA	360
25	TTAATATACT TCAACGAGTT AAATTAAATT TTTAATTAGG AATTGAATGC GTTTATAACT	420
25	ATCACATTTG AATGAATAAC TTTTTCATTA GAAAGTAGTG TKTATTATTG ATGCAATCTC	480
	GATACATCGC TAGAATTTAC TTTtaATTTT ATTTATCGTC TCCCTTnTTG AGACTAAAAT	540
30	TTTTCAATTT ATGACTTTAA ATTTGTTTTT AGCATATATA CCT	583
	(2) INFORMATION FOR SEQ ID NO: 884:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 524 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 884:	
	GCAGAGGGCT TACGATAAAA AGAAAAATCT CGCTCGCCCG CTTCAGTCAA ACTCACAAAA	60
45	GCTAACGCAL GWYTGCTYCA TTCGTGCGAT ACACTTTTGA TACATCTACA CCAATACTTG	120
43	ATATCGTTTC AATAATGCTA TCTCCAAATG CATCATTACC TAATTGTGTA ATCATALACG	180
	CTTGTTGTCC LAACTTTTGA ACTGTACAAG CTACATTGCA TGGCGCGCCA CCAATTTGCT	240
50	TCGTAAATGT TTGAACATCT TTTAAATTCG CATTTGTAAC ATTTGGAATA AAATCAATTA	300
	ACGCTTCTCC TATTGAAAAT AGACGTCTCA TTTATGTTCA TCCTTTAAAT CATATTTAGT	360
	AAATTGTAAA TATACTTGCC CTGATTCTGT TGATGTTTTA ATACCTAGTG CGTCTTCTGT	420
55		

	TGTATCAACA AAAATTTGTA ATTGCTTTAA TGGCGTGTCT AATA	524
	(2) INFORMATION FOR SEQ ID NO: 885:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 885:	
15	TTAATGATTT CTTCGTATGA TTCACCAACA ATTTGCGCTA AAATATCATG CGCAAGTACT	60
	TCACCTTCAA CCATAAATTC TATTTGCTCT ACTAAAAATT TTACGTCATT CATGCTATTC	120
	ATTTTTGGAA TTAACAAAGC ATATAAGTTT GTAAATTCTT TTAAATACGC AGCATCAGCT	180
20	TTTAAGTAAT GGCGTAATGC GTCACTCCTA TATCTCCGGA TAACATCTTC TGAATAAAGT	240
	CATCCTCATA AATATCATAA TGATGGCTTG CAGCTGGGTA CAATTTTGTG AAATTCCATG	300
	TAAAAATCCT CCCTAAATAA AAAACTACTT CCAACATGAA GAGTTGAGGC ATGTGCAAAC	360
25	TAGCCCATCA CTCATAACAC TTCCACGTGG GACTACCAAC	400
	(2) INFORMATION FOR SEQ ID NO: 886:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 857 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 886:	
	AAGAATITAA ACAAAATGAT ATTTGGAAAC ATTTTAAAGC TGTGAAAAAT AATCATGTTT	60
40	ATGACTTAGA GGAAGTGCCA TTCGGTATTA CAGCAAATGT TGATGCTGAT AAGGCAATGA	120
	CTCAATTATA TGATTTATTT TATAAGGATA AAAAATAGTG AGTTGATATG ATGATAAAAA	180
	ATAAAAAGAA ACTACTATTT TTATGTTTGT TAGTCATTTT AATCGCAACT GCTTATATTT	240
45	CGTTTGTAAC CGGTACAATT AAATTGTCAT TTAATGACCT ATTTACAAAA TTTACAACTG	300
	GTAGCAATGA AGCAGTGGAT TCAATCATTG ATTTGCGATT GCCACGTATA TTAATTGCAT	360
50	TGATGGTTGG CGCAATGTTA GCAGTTTCTG GAGCATTATT ACAAGCAGCA CTACAAAATC	420
	CTTTGGCAGG GCGAATATCA TTGGCGTTTC CTCAGGTGCA CTTATAATGA GAGCcTTTGt	480
	ATGTTGTTLA TTCCACAATT GTACTTTTAC TTACCATTAT TAAGTTTTAT TGGAGGTTTA	540
55		

		ATATTAGTAG GTGTTGCGTT ATTCGTATTA TTAAATGGTG TTTTAGAAAT TTTAACTCAA	660
	o	AACCCTTTAA TGAAAATTCC TCAAGGCTTA ACAATGAAAA TATGGAGCGA CGTATACATA	720
5		TTAGCAGTAT CAGCATTATT GGGATTAATA TTAACATTAC TATTGTCCCC TAAATTGAAT	780
		TTACTAAATT TAGACGACAT ACAAGCGCGA ALATCGGTTT TAATATTGAT CGTTACAGAT	840
		GGTTAACAGG GTTATTA	857
10		(2) INFORMATION FOR SEQ ID NO: 887:	
15		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 675 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 887:	
		GATTTATTT AATATTATTG TTAGAAGGAA TTTTTACAAA TTCAGCGAGT GCAATCGAAT	60
		ATTCAGACTT ACATCATAAA AGTAAGTTTG ATTCAAAGCG TCTAAGTAAT GCTAAGATGT	120
25		CATTCATCAA TCCAACTCAG CTTGAAAATA AAAACACAAA CGATAGACTG TTGAAGCATG	180
		ATTTGTTATT TCATGACATG TTCGTAAATG ATGATTGGAA AAAGGATTTT AAAGTTGAAT	240
30		TTGAAAATGA GGCACTTTCA AAGAAATTTA TAAATAAGGA TATCGATATA TTTGCTGGAA	300
		ATTATGGATA CGGATGTCAT GGGGGAGCAA CCAATAAAAC GCAATGTAGT TATGGTGGTG	360
		TTACTTTAAG TGACAATAAT AAATACGATG ATTATAAGAA TATACCTTGT AATTTATGGA	420
35		TTGACGGACA TCAAACAGAA ATAGAACTAA CTGCAGTAAA AACGAAAAAG AAAATTGTTA	480
		CTATTCAAGA ATTAGAGGTT CAATTAAGAA ATTATTTGAA TGAGAAGTAT AAGTTGTACG	540
		AACAAGGTGG CGACATTGTT AAAGGGTATG TTAAATATTA TAATGATGAT GAACAAAATG	600
40		TAGAATATGA TTTTTATAAT TTAAATGGTG AGTATGGTCG TGAGGTATTA AAAATGTATG	660
		Cngataatna aacna	675
45		(2) INFORMATION FOR SEQ ID NO: 888:	
50		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 851 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 888:

	AATTCCTAAT TAACAATGCC TTCATTTAAA AACCTTCTTC CATCAATTTG ATGTTTTCAT	12
_	GATATTTAGG TTTTCTCTTT TCAAGATAAA CCATTAAGTY CTCAATAGAA GGTGTAGTGA	18
5	TATTCACTTT AKGACCTAAA ATTTCTTTAA ATACTTGCGC ATGTTCTGTT AATCCTATAA	24
	ATCCCGTACG CTTATGTTCT TCATAAATAA GTAGAGATGC TAATTCATCA TCAAGGTCCT	30
10	CAATAGCACC ACTCACAACT TGATATCTTT GTAACAGTTG TTCTTTTGAA CCATTTAAGA	36
	TAACTTCACC GTCACTTAAG TGAATGATAT AATCAGCTAT TTTTTCTAAA TCTGAGATAA	42
	TGTGTGTCGA CATGAATATT GTTTTATTTT CATCAATTAA TTCTTGCTGA ATTATCTCCA	48
15	ATAGCTCATT TCTAGCTAAG GGATCGAGAC CTGAAGTAGG CTCATCAAAA ATATACAATT	54
	CAGCATGATG TGAAAATGCA ACTGCTAGTG ATAATTTCAT TTTCATCCCA GTCGAAAATG	60
	TTTTTATTGA TTTATTGATT GGTAAATCGA ACTTTTCAAG ATAAAATTCA AATACTTGAT	660
20	GGTCCCATTT ACGATAAAAA GGGGCAATCA TTTTTTCAAG TTGCTTCGTA GTCCATCTCT	72
٠	CATTAAAATA ATTTTCAGAG TAAACHAACC CAATTCTATT CTTTAACTCT ATCGGATTGA	780
25	GAGCCATATC CTCTTCTAAT ACTCTAATAA CACCAGTTTG TGGGTGATAC AAATCCATAA	840
20	TTAACCTAAT n	851
	(2) INFORMATION FOR SEQ ID NO: 889:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 362 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 889:	
	AATCACCTTC ACGCCAATAT TGATTTTCAT GCGTAAATAC TTGTGCCGTT TCATGATACT	60
40	TTGTCAATCG TGCGTGTTGC TGGGGGGAAT ATTTTTCAGT AGCCCAATTG GCTGCATGAC	120
	CTTCAATGGC TAGTTCAATT GCAGGATTAA TTAAATCTTC CAATGACAAT TTAGCATAAC	180
45	GCTTGTGAAT ATAATCAAAC AGCTTTGGAA TTGCTGGCAC ACGACAGTTT TACCATGTGT	240
45	AGTCATATCA AAAAATGATT TATATTCGCC TGAATCANCT AGATAAAATT GGTTGGCTAC	300
•	ATGGTCAGGG TGCTGGCTCA CGGTGCATCA AACGCnGnTA ATACTGCCCA GTACCTTTGC	360
50	rc	362
	(2) INFORMATION FOR SEQ ID NO: 890:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 747 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 890:	
	TTGGTTTATT CCCAAAAAGT ACGCGAAAAT TAGTAGAGAA GAATTTGAAA GTTTAAATAT	60
10	TGTCAAACCC GCTAAAAATA ATACTTTCTG GCCTGTTGCA GGATTTGCAG TGTTATTAAC	120
	AACCTTAACA AGAAAATATA TCTATTTGCT TAACATCCAT TTAGAAAAAG AAATAGTTAT	180
	ATTAACATGC TGTATGATAC TTCTAGGTGT TTTCGCATTG TTTATATATA TAAATACAAA	240
15	ATTGAAGTTA CATATTTTTG ATAAAAATAA AAGTAATAAC GAAAAGATCA TATTAATACC	300
	TACATTTAAA AATATTTGTT TATCCTTATT TGCTTATATA TTATTTGGTG GATTGTCAAC	360
	AATGGCTCTG AGTATGTTAG TAACTTCATC CCCTCAAAAT ATAATAGAAT TTCTTGCTTT	420
20	AATTGGCATG ACTGCATGCT TCTTTCTACT GAATATGTCA TCGGTTCTAG ATAAAAAAT	480
	TCATGTTATT TTAAAAACAA ATAAGTAGTA AAATTGATTA ACTTAGGTAG TATCGGATAC	540
25	TTAAATGTTG GTTCATAAAA AGCAATGATT TTAAATCGAG GAGCTATCTT AGAACAGGGA	600
20	AATAAAACAG CCAAAGTTAT AAAAAGTGAA TTAATAACTA ATTATATTAT	660
	CTTCAAATAA AANATAATTA GAATAAGGTG GGATTGATAA TCAANGCTAN GCGAATCTAA	720
30	AATCATCAAT AAAAACCCCA AATATAG	747
	(2) INFORMATION FOR SEQ ID NO: 891:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 526 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 891:	
	ATTTTGAAAT TTTAGCAGAT ACTGATAATG GTCTCGATGC AATGAAACTT ATTGAAGAAT	60
	ATAATCCTAA CGTTGTTATT TTAGATATAG AAATGCCAGG CATGACTGGA CTTGAAGTTT	120
45	TAGCGGAAAT TAGAAAAAAG CATTTGAATA TTAAAGTGAT TATTGTAACA ACTTTTAAAA	180
	GACCGGGATA CTTTGAAAAA GCAGTTGTGA ATGALGTGGA TGCATATGTT TTAAAAGAAC	240
50	GTTCTATAGA AGAATTGGTG GAAACCATTA ATAAAGTAAA TAACGGAGAG AAAGAATATA	300
	GCGCCACATT GATGACTTCA TTTTTTGTAG ATAAAAACCC ATTAACGCCC AAAGAACAAA	360

420

TTGTATTAAG GGAAATTGGC AATGGTTTAA GTAGTAAAGA AATAAGTGAA AAATTATTTT

	ATCGTTTTGA TGCTTGGGAA AAGGCAAATG AAAAAGGCTG GACCTA	526
	(2) INFORMATION FOR SEQ ID NO: 892:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 751 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 892:	
15	TATTTGATGT AAAAGCGAAn GAACCATACA ATGTAACAAT TACTAGTGAT AAATACATCC	60
	CTAATACTGA TTTGAAACGT GGGCAAGCTG ATTTATTTGT AGCGGAAGGT TCTATCAAAG	120
	ATTTAGTGAA ACATAAGAAG CATGGTAAGG CAATTATAGG AACGAAAAAA CATCATGTTA	180
20	ATATTAAGTT ACGTAAAGAT ATTAATAAAA TCTATTTTAT GACAGATGTT GATTTAGGTG	240
	GACCAACGTT TGTCTTAAAT GACAAAGACT ATCAAGAAAT AAGAAAGTAT ACAAAGGCAA	300
	AGCATATCGT CTCTCAATTT GGATTCGATT TGAAACATAA AAAAGATGCT TTAGCATTAG	360
25	AAAAAGCGAA AAATAAAGTT GATAAATCTA TTGAAACAAG AAGTGAAGCG ATAAGCTCAA	420
	TATCAAGTTT AACCGGAATA TTATTATTTG TAACATCATT TTTAGGTATT ACATTCTTGA	480
	TTGCTGTATG TTGCATTATA TACATAAAGC AAATAGATGA AACCGAAGAT GAGTTAGAGA	540
30	ATTATAGTAT TTTGAGAAAG CTTGGATTTA CACAAAAAGA TATGGCAAGG GGACTAAAGT	600
	TTAAAATTAT GTTTAATTTT GGGTTACCTT TAGTTATTGC ACTATCACAT GCATATTTTA	660
35	CATCATTAGC ATATATGAAA TTAATGGGTA CAACGAATCA AATACCGGTT TTCATAGTAA	720
	TGGGATTATA CATTTGTATG TATGCTGTTT T	751
	(2) INFORMATION FOR SEQ ID NO: 893:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 357 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 893:	
50	GGATGTTGTA CATTATTCAG ATTACTTTGA AGGGGCACAA AAATATTTGA GCTATTTAAA	60
<i>3</i> 0	ATCAACAGTA GATGTTAACT TTGAAGGTTT GAAAATTGCT TTAGATGGTG CAAATGGTTC	120
	AACATCATCA CTAGCGCCAT TCTTATTTGG TGACTTAGAA GCAGATACTG AAACAATTGG	180

	TAGCTGAAAA AGTAGTTGAA ACTGAAATGA TTTTGGGGTT AGCATTTGGA CGGCGATGGG	300
_	AGACAGANCC ATAGCAGTAA GATGGAGANG GNCCAATCCG TTGACGGTGG ACCCAAT	357
5	(2) INFORMATION FOR SEQ ID NO: 894:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 464 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 894:	
	GCTAACCTGC AAAATTCGAT AAGCGATTCA ATACTGACGC CTGCATTTCG CAAATTTTTC	60
	ACTAAATAAA TCCAATTTAA ATCACTATCA TTATATATTC TATATCCATT TTCATCTCGA	120
20	TTAACTGGTG GAATCACACC AACCTTTTCA TAATATCTTA AAGTGTCTTG AGATATATTC	180
	ATGAGCGCTA CGACTTCTTT AGTTTTCATT GCGACTATCC TTTCAGTTAT GTTTGGTCGT	240
	CTAAAGTAAT GTTGCTTTAT ATATTGTCAT CTTCGTTTGA ATACTTCTTA TTTTATTACT	300
25	CAAATTTAAA TTTGTCTCTT TTTTAACATT TTACATTTCA TCGTTTTTAA TTACTTTAAA	360
	AATTGTATAA CTKAAATATT TAAAATGATA TAAWCACTAA GATTGATAAT ALTTAATTnT	420
30	TTGGAAAATT ATnTTAAGTT GCCAATTTTG GGGGGATGCG GAAA	464
	(2) INFORMATION FOR SEQ ID NO: 895:	
· 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 599 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 895:	
	ANAATGAAAG AGTTACAGGA CTTTATTGCT CGTTTCTCAG TAACGCTTCT AAATCTAAAC	60
	AAGCAACAAG TCGTAAAAAA CAACTCGAGA AAATTGAATT AGATGATATT CAACCATCAT	120
45	CAAGAAGATA TCCTTTCGTT AAATTCACAC CTGAGCGCGA AATCGGTAAT GACTTACTAA	180
	TCGTTCAAAA TCTATCTAAA ACGATTGACG GTGAAAAAGT ATTAGATAAT ATTTCATTCA	240
50	TCGTTCAAAA TCTATCTAAA ACGATTGACG GTGAAAAAGT ATTAGATAAT ATTTCATTCA CAATGAATCC AAATGATAAA GCAATTTTAA TTGGGGATAG TGAAATTGCG AAAACCACAT	240 300
50		
50	CAATGAATCC AAATGATAAA GCAATTTTAA TTGGGGATAG TGAAATTGCG AAAACCACAT	300

540

GCGGCTTCTT AGGCCGTATG CTATTTAGTG GAGAAGAAGT TAAGAAAAAA GCTAGTGTAC

	TTTCAGGTGG AGAAAAGTA CGTTGTATGC TAAGTAAAAT GATGTTATCA AGTGCAAAC	599
5	(2) INFORMATION FOR SEQ ID NO: 896:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1057 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 896:	
	TCATTAGTAG AAATCGTTAA AGATGCATCT TGCAATTTAA AATCCGAATC TTTGTATTGT	60
	TTGTTCACAC TATCTACGTT TAACAATGTT GTCATATCCA TGCTCCTCTT TGTTTAATTT	120
20	TAATAAAAAC GTCTTCTCTT CAATAAATAA CTAAAGGCGT TATATATGAA AATAGCAATG	180
	ATAAGTAGCA AACTAAAGCT TTGATTAATT CCAGTAGTAA TTGAATAAAG CCCAATTACT	240
	ACAATGGCTA GTATCAATAT TGATAAGTTG ATCGCATATG TTTTAAATAA TGCAATTAAT	300
25	TCTATATGGC GTTCACCTTC ATCCAATATT TCCAATCGCT TTTCAGTGTA ATTCTTATCT	360
	GCAATTTTTG GTATTCTGTC ATCAAACCTT CTATTAAACA GTGTAAATTG TGTATTGAAA	420
30	ATAGCACTAG CAAAAAATGG TATTAAAAAG AATAGTATTG CATTTGCTGC AGCGTGCCCT	480
	ACCACAAAAA TAAGCAATAC TAAAAAAGCA ATAACTGTCT GCAGAATACT TAATATACTT	540
	CCATTTAAAA CATAACGATT CGCAAGCAAC TCATATTGAT CTGTTGCATC GATATCTACC	600
35	TCTTTATCTA CAAGTTGCTT ATACTTCAAT GCACGTCTTT GATTCATCAA AACAATGGCT	660
	TCTACCAATA TGATAATAAT CGTCGCAACA ATCGATATTA CAACGACATT GTTATATGTC	720
	GCAAACGTCA AGTTCTCAAT ACCAAATCCA TCAAAATTAC CTAAAATTCC ACCTATGATA	780
40	CCCCCTACAA GTCCACCCAG TAAAAGATAT CCGATATATC TTAGTATTTT CATGCCTCAT	840
	CCTCCTCAAT AATAAAAACA GTTYCCACCG TTTCATTGAA AATGCGAGCA ATTTTTATTG	900
	CCGTTAATAC TGATGGCATA AAATTGTTTC GCTCAATTAG CGATATGGTT TGTCTTGAAA	960
45	CGCCCGCTTG TTTAGCAAGT TGCGTTTGGT TTAAGCCATC TCGTGCTCGT AATTCTTTCA	1020
	ATCGATTACG CACATCGCAT CAACTCCnTA ATTACAC	1057
50	(2) INFORMATION FOR SEQ ID NO: 897:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 336 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

1734

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 897:	
5	AAATTATTGA GTTAACAAAT CATTACGGAG CACATAATTA TTTACCATTG nCAATTGTCA	60
	TTTCAGAAGC CGANGGGGTA TGGGTTAAAG ATCCTGAAGG CAATAAATAT ATGGATATGT	120
	GARCTGCATA TTCCGCTGTT AACCAAGGTC ATAGACATCC GAAAGGTATT CAAGCATTAA	180
10	AAGATCAAGC TGATAAAGTG ACTTTACTCT CACGTGCTTT TCATAGTGAT AACTTAGGTG	240
	AATGGTACGA AAAAATTTGT AAACTGGCAG GTAAAGATAA AGCTTTACCA ATGTAATACA	300
	GGTGCTGTAA GCAGTAGAAA CAGCTTTGAA AGCAGC	336
15	(2) INFORMATION FOR SEQ ID NO: 898:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 898:	
	TGnTGnTTTC TTATTGTTGA CCAATTATTT TGCATACCAA ATCCAAATCA TGTATTTATC	60
	AATCACATCC TAATGCTAAA TCCAATGTAT TACATTGTTT AATGGTATAG CACAATCTAT	120
30	CATATTTGGT ATATCAAGTA TGGAAAACAT TCCATATCAT TTTTACTTTA TTTTATTCTT	180
	ATGTTTAATA GCTGCAGTAA ATTTCGTATT AGCAGGTATA CGACACACGG CAATTTATAA	240
	TAAAACATCT AAAGTGACAC AAACTGATAA TCAACAGGGA GTTTCAAAGA TAGTCAGACG	300
35	GG CONTRACTOR OF THE CONTRACTO	302
	(2) INFORMATION FOR SEQ ID NO: 899:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 469 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 899:	
	CCACTAGCTG ATACAGTAGG TATACCAAGA TTCGTCATCG TTACGACATA TCAATTTGGT	60
50	CAATATGCGA TGTTATTCTT AGCGCCGACT GGACTTGTTA TGGCCACACT ACAAATGTTA	120

	TATAAAAAAT ACTAATGGGG TTTTATGCAT CTCGTAGGTT TGTAGAAATA CTAAACTAAG	300
	CGAGGTGCAT TATTATTTTT GATTAAGAAA ATAATGACGG TAATGATAAC ACTAGTAAGT	360
5	AATTGATACA ATGCTCTATT TAATAATGAT ATTTTTAAAA TTTGTTTTTA ATGTAATGTT	420
	AGATCTATGG TATATTATAT TTAACGTGGT AAATATGTAT TTGCTGTAA	469
	(2) INFORMATION FOR SEQ ID NO: 900:	
10 15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 821 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 900:	
20	CTTTATTGGT AACTCTCTAT aATATETTAA CATTTTTACG CTATCGTGCA AACGCAACCA	60
	CTTTGAATTY TCTGATATTT TTAGCATATA ATTTACACCC TGCACGATGA ATTGTTAATC	120
	CAGTTGTATA AATATCGTCA ACGAGTAATA TTTCCTTACC ATTTAAATCT AATTCCGTAT	180
25	CAATAATAAA TGGATTTTCA TCTGCCAGAC GCTCTTTCTT AGTTAAATGA GACTGTTTTG	240
	GTCTATTTGA CATCTTTAAA ATCTTATCAA AGCGAATCCC TTTAGCTTTT AGTACTGCTT	300
	CTACCGGGTT AAATGTTCTA GATAAATCAT GTGCCGGCGA AGAAGGAATT GGCACAATAT	360
30	AGTCATAAGA TGTTTGTGGT ATTTCAATCA AATGTGCCAA TAATTCACAT AAATAATAGT	420
	CTTTCAAAAA TTTATACTGA TGTATCATCT CTTTCATTAA ACCGTCATAT TGAAATTGAC	480
<i>35</i>	AATATAATTG TTCCATTAAA TTAAAGTGTG CCGATAGAAA CTTGCAGTCT AAACAATACG	540
	CTTCATCTTG ATTTAAGTGT TTTAAGCACC TTGAACATCG CCTTGCTTTA ATATCAAGTT	600
	TAATATTGTC CCAATTCTCT TTGCATCTGT CACATAATCT ATTAGGTTTC TTGAACAAAT	660
40	TATAAATGGT TATATTTTCA TATAACTTAG CACCACAACT CAAACAATTA TTCATCAATC	720
	CAACCTCTTT TTAATGCTAA TTTGTTCATC CTTTGAATCT CTTTTTTAGC TTGAATCATA	780
	TTCATACTTA CCCCTTnCAT GAAAAACAA TACTTTTTCC A	821
45	(2) INFORMATION FOR SEQ ID NO: 901:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TGATGCTATT AAAAAGTTAA TTGTGCGGTC TGTTTTGATA ATTTTAATAA TAACTTCAGG	. 60
	TAACTAAAAA TCCTAATATT GAAAAAACAA AGCCATTTAA AACATAACCT AGTATATTCC	120
5	ATGTATGATT GTAACTCATT TGCCAGTTnT GTACTGACTT GCATAATTCT GTCACGTnCG	180
	AACCATGTAC AAGCCTGCAA CTACTGCTGA ATGATTCCTG ATGCGTGAAC AATTCAGCAA	240
	TTAAATACGT AACAAATGGT GTTACAATTG AATAATTGAA ACATATTAAT GTTTCATATC	300
10	CTCGACGNCA TCAATGTTAA TCCGGACCTT ACTAATGCAT ACCTATAAG	349
	(2) INFORMATION FOR SEQ ID NO: 902:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 902:	
	CAAGTGGTAT AAATTTACCT GGTGAAATGT AGGTCGTGGT GGCGATGATA CATTATTCGC	60
25	TAAAATCGAC GGCGTTGTTA AATTCGAACG TAAAGGTCGC GACAAAAAAC AAGTTTCTGT	120
	ATATGCAGTT AGCTGAATAA TTTTGTCTAG TTAACACCAG AAAGTGAATC TTCTGGTGTT	180
	TTTTACTTTT TATAAAATGT TTTTCATTAT TATTTTCATT ATGnTATTTA AAAATGGGGA	240
30	TTTTAGACGT TATACTAAAT GTGCACTGTA TAGGGGGCCCT AATCACTAAC TATAGGGGGA	300
	CAAGGATACA GTGCAGCGTT AAGGATAACT GnCCACATTG GTCTGGGAAT ATAGGATTTA	360
35	AGCAAGGTTA TAAAGTACTC nTAGGCCCTA	390
	(2) INFORMATION FOR SEQ ID NO: 903:	•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 903:	
	GGAATAGACG TATATGCGCG TTGAATTTAA TCCTAATAAG CTTTCGCATG ATGAAGTGCT	60
	TTGGTTAAAA CAAAATATCA TCAGTTATTT GGACGATGTT AGTTTTACGA GATTAGATTT	120
50	GGCTTTTGAT TTTGAATTTG ATTTAAAATG ACTATTATGC ATTGTCAGAT AAGnCGGTAA	180
	AAGAAACTAT ATTTTATGGC CGAATGTAAA ACCAGAACAA AATATTTTGG TGTnCGAATA	240

	GATTCACATT CTATGCGGTG GAATTGATTA AACG	334
	(2) INFORMATION FOR SEQ ID NO: 904:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(6, 3333333 231622	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 904:	
15	CAAGTTGGGG ACACTGTTTC AAATGAAACA ACAGTGTGTA TTTTAGAGGC AATGAAACTA	60
	TTTAATGAAA TTCAAGCAGA AATTTCAGGT GAAATTGTTG AAATCTTAGT AGAAGACGGA	120
	CAAATGGTAG AGTATGGCCA ACCGTTATTT AAGGTGAAAT AATGAAAAAG GTTTAATTGC	180
20	AAACCGCGGT GAnTCGCAGT TAGGATTATT CGCGCTTGTC GTGATTTAGG CATCCAAACT	240
	GTTGCATCTT TCTGAGGGGA TAAAGATCGC TACATCTCAA ATGCTGATGA GGCATATnCG	300
	TGGGCCnCTT GTCTAAGGTC ATATTTAATA TCCG	334
25	(2) INFORMATION FOR SEQ ID NO: 905:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 905:	
	TTCACCCTGT AATTCTTAAC CGTCAATTGA CCTTTATGCA GATTTAATAT TCCTAAAACG	60
	TATAACTCTT CTAATGATAA TTGACACATA TTTAAATAAC ACTTTAGATT CCGCAATAAT	120
40	TCTTGTGACG ACAATAAATA CGATACATAG TCACAACTAA AATCAAATGT ATATTGACCA	180
	AAATAACGTT CAATATAGTC ACTAAGCTCA TTATTCATAT ATTCTATTTN ATCTATATGC	240
	ATTTTATTAA TCGAAATAGT CAATTTACGT TGATCCCTTT GATCTCTTCC TTTCAATAGC	300
45	CATTGATGAT TGThTAAATA ACTTAACATT TGAAGAAGGG CCATCTTAGA TTGGATTTCT	360
	TTCATTnTTA ATAAACTATC TATTGAAGCG CTATTGGAA	399
	(2) INFORMATION FOR SEQ ID NO: 906:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1478 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 906:

5	TACATTTTTC	AATTTATGGC	AAAATnCACA	ATTTTCATCG	AAATATTTTG	TANANAATCA	60
	TTGCTAGGTG	ATGAGTTATC	TCGGTTAATT	ACAAAACGAT	ATCTAAGTTT	AAATATTAGA	120
	TCATAAAAAA	ACTATCTACT	GAATATCCCT	CCATAGCATC	ATTTTTCTAA	GCAAAAGTTA	180
10	AACTTAGTTA	GATAAAATGC	AAATGAGATT	ATTGTAGATA	GTCTCTTTTT	AATGTTTAAA	240
	AATGATTAAT	GCCaTAAACA	TAAATAATTC	Caaagaatgc	CGCGCCACTA	AGCACTGTTA	300
	ATATAAGACT	TAGTAACAAT	GTGCGTTTAT	AATGTTTaAC	AAATGCtATG	AACAAAATGA	360
15	CTACATTATA	CGCAAAGAAA	AGTCCGAATA	ATGTCATTGT	TATTTTCAAA	TCAGAATAGA	420
	AAATATTTAA	TAGTAATACA	ATGACTGCAT	AAATTAAATA	CGGAATAACT	ATAAATTTGC	480
	GTTCAAATCT	TAATTGTTCG	AAaCGtTTAT	CTTCGTTTGT	CATGATATGC	TCCTTTATGA	540
20	TTTAAAAGTA	AATAAGTTTA	CGGAALATCT	TGTCCGaTAA	TAGCGGTGTA	AALGTCAAAC	600
	CACGACTGAT	CATCLAAATT	AAGTKGTAGC	CCtTCGATTG	CTTGATCAAT	ACGCTTTAAC	660
05	TGACTTGTTC	CAAGTATCCG	GCATGATACG	ATGCGGTATT	TTTACTAACC	ACGCTATCAT	720
25	CACAGCTGTG	TCACTYACAC	mATATTTGTC	AGCTATTGAT	TGAACAACTT	TCATAATACG	780
٠	TTGCGCTTTA	ATATCTTCCT	TGTCGAAAAT	TTTACCGCCT	GCAAAAGGAC	TCCAAGCCAT	840
30	GATTTGAACA	TGGTTTTGAT	ACATTGAATC	CATTGTTCCA	TCTTGTAAAC	TATCAACGTG	900
	ATATGGCGAT	AATTCTAATT	GATTGATGCT	AATATGTAGT	CTTTCTTTCA	TAATATATTG	960
	ATTTAACAAT	TGGTATTGTG	AATGATTAAA	ATTCGACACC	CCGAATGACT	TCAACTTACC	1020
35	TTGTTTAACA	AGTTTAGTTA	ATGCATCAGC	AACTTGTTCT	GGaTCCATCA	ATGGTGaAgG	1080
	ACGATGAATG	AGTAGACTAT	CTAAATAATC	TACATTCAAA	TTGATTAATG	ACTGTTCAAC	1140
	AGATTTCACG	ATGTGCTTAC	TACTCAAATC	ATAACGATGT	CCATTTGTAA	AATCAAATTG	1200
40	CTTAGAAGGC	AAAATGATAC	CACATTTCGT	AACAATTTGA	ATTTTATTTC	TTAATTCGGG	1260
	TGATAAATCC	AAAGCATTAC	CAAACAGTGA	TTCACATTGA	TAATCTCCAT	AAATATCAGC	1320
	ATGATCCATC	GTTGTAATTC	CACGTTCAAC	TAATTCATTT	TAAAATAAT	TTAACTCTTT	1380
45	CGCAGTCATC	TTCCATTCAT	TTGCACGCCA	AAAACCTTGT	ACAAGCCTAG	AAAAATGAAC	1440
	ATAGTGATTA	ATCATTATTT	GTTCCATATn	TCATCCAC			1478

(2) INFORMATION FOR SEQ ID NO: 907:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 543 base pairs

55

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 907:	
	TTCTATGAGA ATAGATATTG TTAAATTAAG AAAGTAGTCA ATTTTATTAT GACAAAAGAA	60
10	AGAAGAACAT TTAGTTCAGA GTTTAAGTTA CAAATGGTTA GATTATATAA AAATGGTAAG	120
	CTTAAGAATG AAATTATACG AAAGTATGAT TTAAAACCCT CAATTATCTC AAATTCGATA	180
	AAACAACACC AAAATACTGG ACCCTTCAAT CATCAAGATA ATTTAAAAAG TGATGAAAAA	240
15	GAGTTAATAA AATTACGCAA AGAAGTTCAA CATTTAAAAA TGGAACATGA TGTTTTAAAG	300
	CAAATTTTAA AGTTGATTTA GAAACTGAAC TTTTTAAAGA TACATTACTT GAAGATTCTA	360
	ATTTATCTGA TTATATAAAG AACCAACTTC CAACGATATG GAGAGACTAA GAAATAGTTT	420
20	AAATTTATTT AATTTCAATA AAAACTCATA ATAATATTTA AGTAAGTTAG ATTGCTTTTA	480
	GCATTAGGAA TTCGCTTATA ATTAGATGTT CAATATAGAC TTTTTTACAC ATACATGAAC	540
0.5	TAT	543
25	(2) INFORMATION FOR SEQ ID NO: 908:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 751 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 908:	
	TTTnCGGTng AACATGATTn CGATATTACT TCTAAAACGA TTCAACCAAA ACCAGGAGAA	60
	AGTGTTGGAC GTTTAGTTAA TGTCGATTGT AAAGATACAG TACTGGAGTA TTCAGAATTA	120
40	GATCCAGAAG TTGCAAATCA ATTTAACAAT GCTAATATCG GTATTCATGC ATTTAAACTT	180
	GGTTTTATTT TAAACGCTGT AAATCGTGAG TTACCTTATC ATTTAGCTAT TAAGAATTTG	240
	AAGCAATTAG ATGAGAACTT TGGTGTTATT GAACAACCAA CTTTAAAATT CGAATTGTTC	300
45	TATTTTGACA TATTTACTTA TGGAACTAGT TTTGTCACGT TACAAGTTCC TAGAGAAGAA	360
	GAATTTTCAC CTCTTAAAAA TAAAGAAGGT AAAGATAGTG TTGCAACTGC AACAGAAGAT	420
	TTACGTAGAA TGGGTTTAAT TTAATGATAG GCGGTGACTA TGATGTCCAA ATCAACTAAA	480
50	AAAAGTAATG ACACAATCGT AGAAACATTT AAGGATATCA TCCCTTTATC ATTTGGAGAA	540

1740

600

GAAATTGGTA ATGCGGCATC TCATGGTGTT GCAGCTTTGT TAACATTATT AGTGTTACCC

	TATGTTATTT CTATCTTTAT GATGTTTATT TCATCTACTA TTTATCATTC TATGCAAAAT	720
	GAAACACCTC ATAAATATAT TTTAAGGATT A	751
5	(2) INFORMATION FOR SEQ ID NO: 909:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 909:	
	AAATTGTCAC AATTCAGTCT AATTTAAAAG GAAGTTAATT ACAAAATTAA AAAATCATGC	60
	ATCGTGTCAT TTAGATATTG AAAAAGATGA GTCAAATTTG TTTCATATAT TTTCCAATAA	120
20	CAAATTATTA TATCTAAATA TACAATCAGA AATATATGAA TAGAAATATC AATAAGAAAA	180
	ATAATATGAT TAAAAATGAT GAATGGCATA CTTATAAAGT GTCTAAATAT TGGCGGTCAA	240
	TATTACTTAC AAACACGAAT GTTAAGTAAT GTAGACAATG cTGaAAAAAC AATaAGTAGa	300
25	AACTCTATAT AGAATGTTCG TTTTTATTTT TAATAATTGA ATAATCATTA TTGGGTGGAT	360
	TTTAATATGG nATTCCGGTC GGCACACGGA TTAC	394
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 910: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1022 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 910:	
40	TAAAGCTAAG AAAAAAGAAA AACGTAAAGC TTATAACCAA CGAATGAAAG AACGTAGGAA	60
	AAATCAACCT AGCGCAGTTA GTCAACGTCG AATGAATTTT GAAGAGCGAC GTCAAATTTA	120
	CAACAATGAT ATTTCTGAAG AACGCAATTC AAGTGAAGTT AAGGACAAAA AAGAGCAAGA	180
45	ATAAATATTG ATGATACCCA GATTAGTAAG CAGAGGTCTT TTGCTTATTA ATCTGGGTTT	240
	TTATATGAGG TTAATTATCG ATAACGTTTA ATTAAAGTGT TTAGGTGTCA TAATTTTAAA	300
	TGACGATTTC CCCATTACKA TACACCTAAA TEATCATCAA TCTGAATTCA GATGTTTATK	360
50	ATAAAAATTA GATGAAAAAT ATGTTAATAT ACAAGKAATT TAATGTGcGk ATATCTATAG	420
	GCTCGTAGTA TACTTATTAA AATATTAAAC AAAGAAAGGA TTTTAAGATG AATAGAAAAC	480

	GGCTATCCTA TTTTTCTTTA AAAAGTGGTA ATGCATCACA ACGTGAAGAA TTAGCGAAGC	600
	AATTATCTCA GAACGGTGGC AAGGTTTCTT TAGATATGCT TCAGACAACA ATGGGTGCAT	660
5	TAGCAATTAT TTTATTAATT TCAACACTTT ATGGTATATT TGCGACAATT TGTATTAAAG	720
	GACGTAGAAA ATTATCGATT ATACTTTTTG TTATCGCGAT AATTGTAAGT TTGATGGCTC	780
	TTAATTTAAT TGCAATTGTC TTATGGGTTA TCGTGATGAT TATGTTGATT TCTAAAAAAG	840
10	AATCAAAAGA AACAACACAT AAGGACGATG AGTATATTTA TCATTAATAT GTTCATAGCA	900
	AAAGAAAAAC CATTAAAATG TTAAGTTGTT AATTATTAGA TACAACCAAC ATTTTAATGG	960
15	TTTTATTTT AACTTTGTAG TTCTTGGAAT GTTTGAACGA TTAAATAGAC ATTTAAAATA	1020
	ст	1022
	(2) INFORMATION FOR SEQ ID NO: 911:	
20	(i) SEQUENCE CHARACTERISTICS:	
ē	(A) LENGTH: 274 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 911:	•
30	GGTACTTTAT TTTTATTTTT GGTCTTAGTG ATTTTTACAT TATTTACATA TAAAGCGCCT	60
	AATGGTATGC GTGCCATGGG TAGCATTAGC TAATGCAGCA ATCGCAACAT TTTTAGTGGA	120
	AGCATTTAAT AAATATGTmG GTGGCGAGTA TTCGGTATTA AATTTTTAGA AGAGCTAGGA	180
35	GACGCTGCGG AGGTCTAGGT GGTGTCGCTG CCGCTGGATT AACAGCATTA GCTATCGGTG	240
	TGTCACCAGT ATATGCATTA GTTATAGCAG CCGC	274
	(2) INFORMATION FOR SEQ ID NO: 912:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 679 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 912:	
50	CTTTAATTGT TCACTTTATC ATTATTATCA ATCAACTCTA TGATATGAAA TTGTGTTAGA	60
	GATAAATCTA GTTCCTCATT TTCCTTTTTA TACTGTCTTC TTTTATCGGC ATTTTCTCTT	120
	TCTATAATAA ATTGTTGTAA TTTTAAAATA ACTTCTCTCT TCATATCCAC TATTATTCCT	180
<i>55</i>		•

	TTGTTGTAAT TAACATATAT TTACTTAGTT ATGCACCATT TATTCCGCAT TTCACAAATC	300
_	CACCTATAAT ACAAACTATC ATTTTAAATA AGCAGAATTT ACCCTGTCTT CCACACAAAT	360
5	TGTTTTCGAC ACTTTAATGT GCCTACTATC CAAAAAAGTT ACTCATAACA AATTGCGCAT	420
	TTTAATAAAT GTAGCAATGC CATTTGCATG CTGCAAAAAT ACTCGTATTC ATATTTATGT	480
10	TTTATATTAT TAAAGTTTTT TAAATCCATA TTTTTATAAC ACTTGCTATG TGATAAAATT	540
	AATmTTATAT ATAAAATCTT AAGATTCAGA TTATTTAATA GCAAAGGAGA TAGTGATATG	600
	GATGTTTTAA CAATAGAACA TTTAACAAAG AAGATAGGCA ACAAAACGAT TCTCGAAGAT	660
15 .	GTATCATTTA AGCTGAAAC	679
	(2) INFORMATION FOR SEQ ID NO: 913:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 564 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 913:	
	GCCATCCTTC AGTGCTAATT TTTTCAAATT CTAATGCAGA TGCACCACTA ACCATACCAT	60
30	ATATAAGAA AAAGACCACG AAAGNAATAA GTAGTAGTAT AGATGCACAT ATCATAATGA	120
	CATTGGAGTT TTCAGCGCCA AATTTAAATG TCAATGSGAA AATGATAGAG TATGCCCCTA	180
	TGATACCAAA ACTCATTAAA CCTGACATAA TACCAATCAT CACACTTTGG GTCACAATCG	240
35	TAGTCACAAC TAATCCAATC ATTÄAACTTG CACCGAATAA GATTAAATAA AAGGCAAAGT	300
	ATGACTTAAT ATAATCACTA CGTTTAACCG GTAAAGTAGA TACATAATAC ATCCATCTTG	360
40	AGTCTTTTC aTGTTTAATA TTATCAGTAA TAGGTGTGAT TAACATAACC CCAGCCATKG	420
	CCGAACTCAT CAACGGATTA AATACTGCAA AGTATCCTGC AGCTATAATA GCGACTATAA	480
	AATAAATATA TGTTTGCnTT CTCGTTGCAT AAAAACTACT TAGGAACATA CCTTTCATTA	540
45	TACTTCACCT CGCATTATGA TTTT	564
	(2) INFORMATION FOR SEQ ID NO: 914:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 643 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	AAAGAAGAAG CAAGTGCAAA TAATTTAAGT GATATATCAC AAGAGGCACA AGAGGTTCAA	60
	GAAGCTAAAA AAGAAGCACA AGCAGAGAAA GACAGTGACA CATTAACTAA AGATGCAAGT	120
5	GCAGCAAAGG TAGAAGTATC AAAACCAGAG TCACAAGCTG AAAGATTAGC AAACGCTGCA	180
	AAACAGAAGC AAGCTAAATT AACACCAGGT TCAAAAGAGA GTCAATTAAC TGAAGCGTTA	240
10	TTTGCAGAAA AACCAGTTGC TAAAAATGAC TTGAAAGAAA TTCCTCAATT AGTTACTAAA	300
10	AAGAATGATG TATCAGAGAC AGAGACGGTT AATATAGATA ATAAAGACAC TGTTAAACAA	360
	AAAGAAGCTA AATTTGAAAA TGGTGTTATT ACACGTAAAG CTGATGAAAA AACAACTAAT	420
15	AATACAGCTG TTGACAAGAA ATCAGGTAAA CAATCTAAAA AAACAACACC TTCAAATAAA	480
	CGAAATGCAT CAAAAGCATC TACAAATAAA ACTTCAGGTC AGAAAAAGCA ACATAATAAG	540
	AGATCATCAC mAGGTGCAAA GAAACAAAGT AGTTcmAGta AGTCAACTCA AAAGAATAAT	600
20	CAAACTAGTA ATTAAGAnTT CAAAAACAAC AAATGCTAAn TCC	643
	(2) INFORMATION FOR SEQ ID NO: 915:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 915:	
	AGGTTTAAGG GAAAAATCCT ACCTGGAGAG ATTCAAAAAC TAAATGGACT ATTTCCAAAA	60
35	ATAAAGGCA ATCACATGGT GGTTCTTATT GGAAGTTAAT AAATAACAAA GGAAAAAGAA	120
	TAGCTTCTTT AACTAAAGAA GGAAAAATCT TAAGGGAATA AGGTGTTGTA AATTATGTGC	180
	TTTGATATAA ATAATTTGGA TATAAAAAAG TTGAATTTTA GAAAGGTAAA AAACGCAATT	240
40	CATTTAAGTT TAAGTGGCGA TAAATACCAG TTTTTGGAGG ACGGTAAAAC TATCAATAAT	300
	ACTTATTTT TAGCTGTATA TGATAATGCA ATAAACATTT TTGAAGATTT GTTTtCGCCT	360
45	tCTGATTCTA TAAATTTGGn TCATGTAGTA TATGTTTATA (2) INFORMATION FOR SEQ ID NO: 916:	400
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	CCCAAAGTTC GATAGTGTAT TAGTATTATC TTAATAAAAT GTTAGGTACA ATAAAGATGA	60
_	TTATATATCG GAGGTTAGTA TAAAAATGTA TGTAGATCGA AAACCATCAC TATATITAGA	120
5	GGATTTGCGA CATGATTTTA AAAATAGTTT AAGTAAATTT GAAAATGGTG ATGAAGCATT	180
•	TGATACGTTA TTAGGTTTCG TAGAGTTAGA TCATATTTAT TCGTCAGCAC TAAAGGAAAT	240
10	AAGCACTAAA CTGAGTATTT TAGATGACAA TTTCAATCAC ATTTATAWAC ACAATCCTAT	300
	ACATCATATG GAGCGACGTG TGAAAGAAAT GCGTAGTTTA ATAGAAAAGC TTAATCGTAA	360
	AGGATTACAG ATTAGCGCAG AAACTGCCAA AGAACATATA	400
15	(2) INFORMATION FOR SEQ ID NO: 917:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 917:	
	GAAAATTACT ATGAAGATTG CATTAGGATG CGACCATATT GTTACAGATA CAAAAATGCG	60
	TGTATCTGAA TTTTTAAAAT CAAAAGGACA TGATGTCATT GACGTAGGAA CATACGATTT	120
30	CACAAGAACA CATTATCCAA TTTTTGGTAA AAAAGTTGGC GAACAAGTTG TTAGCGGTAA	180
	TGCAGACTTA GGTGTTTGTA TTTGTGGAAC AGGTGTTGGT ATTAACAATG CTGTAAATAA	240
35	AGTACCGGCG TTCGTTCAGC ACTAGTACGT GATATGACAT CAGCGTTATA CGTAAAAGAG	300
J	GAATTAAATG CGAACGTTAT TGGCTTCGGT GGACGTATTA TAGGTGAGTT ATTAATGTGC	360
	GATATTATCG ATGCCATTAT TAATGCTGGA TTATAAACCC	400
40 45	(2) INFORMATION FOR SEQ ID NO: 918: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 918:	
50	GTCTCCAGCC ATTWCACCAC ACATACCTGT CCATTTACCT TCTTTATGTG ACGCTTCAAT	60
	AACTTGTTTA ACTAAACGTA AGATTGAAGG GTTATATGGT TGGTATAGAT ATGATACACG	120
	CTCTGACATA CGGTCAGCAG CTAATGTGTA TTGAATTAAA TCATTTGTAC CGATACTGAA	180

	GATTCCTAAT	TCTATATCAT	CCGAAATGTC	ATGACCTTCA	TTTTTAAGGT	TITCTTTTTC	300
	TTCTAATAAT	ATAGCTTTAG	CTTCTCTAAA	TTCGTTAATT	GTTGCAACCA	TTGGGAACAT	360
5	GATATTTAAC	TTACCATAAA	CTGATGCACG	TAATAATGCA	CGTAGCTGTG	GTCTGAAAAT	420
	ATCTTGTTGC	GCAAGGCATA	AACGAATCGC	ACGGTAACCT	AAGAATGGAT	TCATTTCTTC	480
10	AGGCAAGTTT	AAGTATGATA	ATTCTTTATC	TCCACCTATA	TCTAAAGTAC	GTACAACAAC	540
	ACGTTTACCG	CCCATTGCTT	CTAATACTTC	TTTATAAGCT	TCAAATTGTT	CTTCTTCTGT	600
	AGGCATTTGG	TCACGACCCA	TATATAAAA	CTCAGTTCTA	TATAAGCCGA	TACCTTGTGC	660
15	ACCATTTTCa	ATAACACCTG	GCAAATCATT	AGGTGTACCA	ATATTTGCAG	CAAGCTCTGC	720
	GTGAACACCA	TCAACTGTAA	CAGTATCAGC	ATCACGTAGW	TTTTGTAATT	CTTTCTTGTC	780
	AGCAAAATAA	CGCTCACGTT	TATCTTGATA	AGCGATTAAC	TCATCTTCAG	TTGGATTAAC	840
20	GATTACATCA	CCATTTAATC	CATCTACGAT	AATCATGTCG	CCTTGTTTAA	CTTCTTGAGT	900
	AATTGATTTT	GTACCAACAA	TTGCTGGaAT	TTCTAAAGAA	CGACTCATAA	TTGCAGAGTG	960
	aCTTGTTCTT	CCGCCAATGT	TTGTAGCAAA	ACCTTGTACG	AATTCTTTAT	TTAATTGAGC	1020
25	AGTATCAGAT	GGCGTTAAGT	CATTCCCTAC	AATAACAACG	CTTTCATCAA	TCATACTCGG	1080
	ATTCGGTAAT	TCTACACCTA	AAATATGTGA	TAACACACGT	TTAGAAACGT	CGCGAATATC	1140
30	AGCCGCACGT	TCTTTCATGT	ATTCGTTATC	CATAGATTCA	AAAATTGTAA	CAAATTGTGT	1200
	TGTnACATCC	GCTTAATGTG					1220
	(2) INFORM	ATION FOR SE	EQ ID NO: 9	19:			
35	•	EQUENCE CHAI (A) LENGTH: (B) TYPE: n	315 base pa	airs			
		(C) STRANDER (D) TOPOLOGY	ONESS: doub				
40		(D) TOPOLOG.	r: linear				
	()	SEOUENCE DES	CCRAPTION.	SEO ID NO.	010.		
	,,,,			_		CA A COTTOTTO	60
45						CAACCTGTTA	60
						ACATTAATTG	
						ATTACTAATG	180
50						GGTATGATTA	240
	ATCACAATGA	AAACTTTGTt	GATATTAATa	AACCTATTGA	GCaGCAATTA	AAAGATGCAG	300

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TGCAATTTGT TAATA

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5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 920:	
	ACTITGIAAA CCTACAAATG TAATGAATAA TCCTATACCT GCTGAAACAG CCATCTTCAT	60
•	TTGATAAGGA ATTGCATTAA TAATAACTTC CCTAAACCCT GTGACGGTTA ATATCGCAAA	120
15	GAATATACCT GAGAATAAAA CGCCTGTTAA ACCAACTTGC CAAGGAATAC CCATGGTTAA	180
	CACAACAGTA AATGCAAAGA ATGCATTTAA TCCCATACCT GGTGCTAACG CAATTGGATA	240
	TTTAGCTATT AGCCCCATGA ATAGCGAGCC TACAAATGCT GCTAATGCAG TCGCTACAAA	300
20	AATGGCACCT TGGTCCATTT TCATATCTTC TGATACGCCT TTAACACCTG CTAAACTTAA	360
	AACTTGCGGG TTAACTGCTA AAATATAGGC CATAGATAAG AAAGTTGTGA TACCGCCTAA	420
25	GATTTCTCTT TTA	433
25	(2) INFORMATION FOR SEQ ID NO: 921:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 921:	
	CTATTTATT TGTATAGCGC TTGATGTAAA GTTATTTTAG CTGTCATACT ATGTGCTAAA	60
	CCAAATTCAG TTGTGTCATA TCTTCGCTTT TTTGTCACTG TTATAATAGG TATAATCGGA	120
40	TATAATGAAA AGGKGAGGGA GGATTCAAAA TGCGTAGGTT ATTATATTCA TTTCTTTTTT	180
	ATATGATCAT AGGTTTATTT AGTGGCTTTT TCTATAGAGA GCTAACAAAA GCATATGATT	240
45	TTACTGGTAC AACACAATTA TCACTTGTAC ACACACATAC ACTTATTTTA GGTATGTTTA	300
45	TGKKTTTAAT ATTATTACCA TTGGAGAMGT TATTTAAATT ATCAAGTTAC TACTTATTTA	360
	ACTGGECTTC TATGTATATA ACATAGGTGT TATCGTTACT ATAGGTATGA TGGTGACAAA	420
50	AGGATTCTTC CAAGTCACT	439
	(2) INFORMATION FOR SEQ ID NO: 922:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 474 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 922:	
	GTAATATCTA TATACGTATA TTTAAATGAT ATATCTGGGT ATTTTCTTTT TAATAGCGGC	6
10	TGTAGCCAGT CATAAATATC TLTCGATGTT GGCGCATTAA CGCAACTTGC ACATATAACA	12
	TCTGCCCCAT AAACTACCAC ACTCACGTGC TCCATATATT TATCCCCCAT TGGTTTGATA	18
	GATTTTTATT ACACTATCTA TTATAATATA STMATAAAGA TTATCAAATT CATCTCTCGA	24
15	AAGGAGACTT GCCTGATGCC TACTGAAGAT ACAACGATGT TTGATCAAGT AGCAGAAGTT	30
	ATTGAACGTC TTCGTCCATT TTTATTACGT GATGGTGGCG ACTGmTCATT GATTGACGTG	36
	GAAGACGGTA TTGTAAATTA CAATTACATG GTGCATGGTG GNACATGCCC CAAGTTCTAC	42
20	AATCACTCTT AAAAGCTGGG TATTGAGCCG TGCATTACAC GAAGAAGTGC CTGG	47
	(2) INFORMATION FOR SEQ ID NO: 923:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 554 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 923:	
	TCAACTTGTG AAGAAAATTT ATTAACTTTA GTAACTCTTC CAACAAAACC TTGTGATGTC	6
35	ATCACAGCCA TATTIGAAGT TATACCTGAT TTAGATCCCT TATCAATTAC AATTGTATTC	120
	ATCCACTGAT CCGGATTTCT TGCCAAAACC GTAGTAGAAA TAGGATCAAA TTTTGAAATA	180
	TCTTTTAAAT CAAGCTCTTT TTTTAATTTT TCATTTTCCG CTTCTAATTG TTGGTTCTTA	24
40	GATTCTAACT GGCTAATCTT ATTTTTAGAT TCTTTAGAAT CTCCTTTTTT AAAAAAGTCC	300
	CCAATCGTAC CAGCAACAAA ATTAACTGGA TAACTCACAA CTCGTTGTCC AAAAGACACA	36
45	GAATCACCTA TATATTGTTC AGGAGGTGAT TGAGATTGTG AACGTATGGA CAGCCCAATT	42
45	AATGCAATAA AAACGATAAT TGCACATAAA ACAACAATTA ATTTGGTATT TTTAAAAAAC	48
	TTAAGCACCC AGAACACCTC TATTATGTCA NAATATTGTA TATCCTTTTC TAATTNATAT	54
50	TACTCCCATT ATGA	554
		23.
	(2) INFORMATION FOR SEQ ID NO: 924:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 575 base pairs	
5 <i>5</i>	iii, balletiii patto	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 924:	
	ATCTTTAGGC ATTAAGCAAG TTTATGTAGA AGACTTTGAA CATAAATCCT TTAGCAAAGC	60
10	TAAAAAAGCC TTAGAAGAAA AAGGGTTTAA AGTTGAAAGT AAGGAAGAGT ATAGTGAChA	120
	TATTGATGAG GGTGATGTGA TTTCTCAATC TCCTAAAGGA AAATCAGTAG ATGAGGGGTC	180
	AACGATTTCA TTTGTTGTTT CTAAAGGTAA AAAAAGTGAC TCATCAGATG TCAAAAACGAC	240
15	AACTGAATCG GTAGATGTAC CATACACTGG TAAAAATGAT AAGTCACAAA AAGTTAAAGT	300
	TTATATTAAA GATAAAGATA ATGACGGTTC AACTGAAAAA GGTAGTTTCG ATATTACTAG	360
	TGATCAACGT ATAGACATTC CTTTAAGAAT TGAAAAAGGA AAAACAGCAA GTTATATTGT	420
20	TAAAGTTGAC GGTAAAACTG TAGCTGAAAA AGAAGTCAGC TATGATGATG TATAAATATA	480
	ATTGAAGTAA ATGTACCGAG GTTTCTATTT GGAAGTCTCG GTATTTTTAT GTTGGAGATT	540
25	GCGGTAGTTT TAAAATGCNT CNTGTCNTCA TATAC	575
	(2) INFORMATION FOR SEQ ID NO: 925:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 925:	
	AAAAACGCTG CTGAGTTTAA AAAGCAACAA TTAAATGAAC AAGGTATTTT CAAGAAACCA	60
40	GTGATTACAC CTATTAAACC ATATAAAAAT TTCTATCCAG CTGAAGACTA CCATCAAGAT	120
40	TATHACAAAA AGAACCCCGG TACATTATTA CCAATATCAC CGTGGGTCAG GTAGAAAADC	180
	GTTTATAGAT CHCATTGGGG GGATCCAAAG CTTAAAAAGA TAAAAGTGAC TACCAGATAT	240
45	AGATATATTG TTACACAAGA AACGGCACTG GACCACCATT TATGAATGAT ATTGGACCAT	300
	TTGCTAA	307
	(2) INFORMATION FOR SEQ ID NO: 926:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 926:	
5	CTCTACGCAC TCATTCAGAT ACACACATTG CGCATTGCTC ATAGAATCAG GTGTACACAT	60
	TAAAGAAATA CAAGAACGAT TACGGCATAA AGATATCAAT ACCACTATGA ATATCTATGC	120
	TAAAATCACA AATTCATACA AAAAAGACGC CTCCCATAAG TTTAGTCACC AAATGGAAGA	180
10	CGTCTCGTAA TTAAAATATA TTTGCGTGCA TTCTAATTTA TACTTAGAAT GAATCATACT	240
	CGTGCATAAT GTAATTTCT AGTTAGTCAA AACTATAAAC AGTTTTACAT CATTCCTGGC	300
	ATGCCACCCA TGTTAGGTTG GTCATTATTT TTTTCTGGAA TTGATGCTAC AACCGCTTCA	360
15	GTCGTTAAGG ACATTGCTGC AACACTTGCA GCAGTTGnAA	400
	(2) INFORMATION FOR SEQ ID NO: 927:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 809 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 927:	
	TTTAGGTGGT TTTAATnGTT ATGGTCATTC TGGACACCTA CTTATAATAA AATTTCAAAT	60
30	CAAACTGAAC nTTTTGTACC GTTTGATTAA ACTCAAATTT ATTAGCTCCG TATTTAAATT	120
	TTGGTTGGGC TATATTCGTT TCGGTACTTA TTTCAACACC GTTTTTATAA ACTCGGAAGC	180
	TATCATAAAC AATTCTGTCT CCAGCTTTTA GTTTGATCCC TTCGATTTTC ATTATTTCAG	240
35	CATGCGTTAA ATTCCATACA AACGATTCTG TATCTTCGCC TAAAATAATT GTTATCTTTT	300
	TATACATGTT GAATTGGTCG TTAGGAGCAC TACCATGATA GTAAACTGTA CCTTTGCTCA	360
	AATTTTCAAA TGTATACTTT CTTTTGTCTC CGCCTGCATG CCAATCAATA TTAAAATCAA	420
40	ACGACCACAA TCCAACCTTT TTGTTTTCTT CTAACTCTAG GCTTGTTCCA ATACTTTCAC	480
	CGTATGGTAA TTCTGTAGTT TCGAATTTTA GTTCAAAAGA AACTITATTA CCTTTTTGTT	540
45	TAGGGTTTAT AACTCCGTTA AAAATAACTT TATACTGTTT ACCATTTACA TAAATTTGTT	600
	GATCGTGTCT TGAATATTCG TAATCCGGGA AGTTGTTTTT ATCTAATTTC ACGTAATCAT	660
	CAGAAGTTGG TTGAGTAAAC CTGTAATTCA ACTCTTCTTT TCTTCTGATn TCTCGCAAAT	720
50	ACATAGGTTC TATGTCTGTC GTTAACGAAT ACAACATATC TCGCATATAA GCAATGTCTG	780
	AACGATTTTT AACTTTACAA AAACAAGGA	809
	(2) INFORMATION FOR SEQ ID NO: 928:	

(A) LENGTH: 1016 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 928:	
10	NAAAACTATT ATCGCATCTA CAGTAATCGC TGCAGGTCTT TTAACTCAAA CTAATGATGC	60
	TAAAGCTTTC TTTAGTTATG AATGGAAAGG TTTAGAAATC GCAAAAAATT TAGCAGATCA	120
	AGCTAAAAAG GACGATGAAC GTATTGATAA GTTAATGAAA GAGTCTGATA AAAATCTAAC	180
15	TCCTTACAAA GCTGAAACTG TTAATGATCT GTACCTTATT GTTAAAAAAT TAAGCCAAGG	240
	TGATGTGAAG AAAGCAGTTG TCAGAATTAA AGATGGTGGT CCTAGAGATT ACTATACTTT	300
	TGACTTAACT CGTCCTTTAG AAGAGAACAG AAAAAATATT AAAGTTGTTA AAAACGGTGA	360
20	AATCGACTCG ATTACTTGGT ATTAAAAAAC ATACTGAATT AAATAGTTGT ACGCCAAACG	420
	TTAGAAAACA ATGCTAACGT ATTGGCGTGC TTTTTTATTT TAAGTAACTT CCAATTTATT	480
25	TAGCATCTTT ACGACTGTTT AATAAAGCAC GTATGATTAA CACGGTTGCC ACTATATCCG	540
	TTACAATTTT TATGATTGTT AATACATTCG ATTTCCTTTT CACAATAGCC ACCTCGCTTG	600
	TTCAAAACAT AAACAACTAT TGCATTCACT TTTAAGTAAT TATTTATATT ATTTATCCCA	660
30	ATAAGCTCAC CATTCAAATA AACACAATAT TATAAAATAA TTATACCTTT GGATATAGCA	720
	AAAAGCCACA CTCTATAGCA TGGCTTCTAT CAATTATTTT AAAGTATTAT ATTTTAAAAC	780
	TAGATCGATT TGTCTTTGTA ATTTTTCTT TTCATAACTG TGTTGGAAAT GAATTAAATT	840
35	AACAGCTCTT TGTGCTTTAC GGTGTGTTGC AACAGTTCTT GTACGTTTGA AAAAGTTTAC	900
	AGCTTTTTGT GCATCCACAA CTTTTLLATT TACTTGWTTT KTAAAGTTTG TTGATACTGA	960
	TCATATTTT TAGCAGCTTC ACCGTTnTTA GTTGTGCATG AGATCACCGG CAACCG	1016
40	(2) INFORMATION FOR SEQ ID NO: 929:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 929:	
	AAATGAAATC ATACCTAAAA GAGATATTAT TACAGAATCA ATGATTTGTG ACTGTATTCA	60
	AAATGCAGGT ATTGATTTAG AAGTATTTAA AGACGACTTA CAAAAAAGTA AACTAACCGA	120
55	·	

	CGTTTTCTTT AGTGAAGATG TTCATGAAGA AGGTTTAAAA GTCGAAGGAT TATACCCATA	240
	TCACATCTAT ACTTATATAA TTAATGAATT GATGGGTAAA CCTATCGAAA AGAATCTTCC	300
5	TCCTAAATTA GAAACTTATA TACAGCAACA ACAACTTGTA ACGATGGAAG AATTACTTAC	360
	TATTTATGAA TGGCCAGAAA AACTTTTAAA CAAAGAGTTA	400
	(2) INFORMATION FOR SEQ ID NO: 930:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 930:	
20	TATTTCTGAC ATGTATCATG CTCCTTCGTG CTTTATTCTA ATGTAATATA CACAATTATA	60
	CATTGAAATT CAAATTTGTG AACACATTGT GAACTGACAT AAATTATACA CAATTTCATA	120
	GCGCATAATG TTTTAAAAAT ACACATTATA GCAATTATAA TTAAGTTCAT TGTGTTGTCA	180
25	TCAAAAAAG AAAAAGGTGA TGTTTTAAAT GGATACAGTT GAATCAGTCG GTTTTTGACA	240
	GCATGACTTA GCAGTTCATA TCATTTTGCA ACGATGGTGT GGTATGCTTA ATGTCGCAAT	300
	TCAGATTTTA GGATCGCAAA ATGACTCATA TATAGCATGC CAAGTGGCAA GTATCATACG	360
30	ACATGGnGTG TCAGGCATAN GGCTCATACT GTGCAATATG	400
	(2) INFORMATION FOR SEQ ID NO: 931:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 543 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 931:	
	CCAATCAATG TTGCCAATGG ATCACCTAAT GACAACCAAG TAATTGCTAC CATAGTAACT	60
45	GCTGTTTTAA TTTTACCTAA TTGACCAGCT GCACTTACGA ATCCTTGTTC AATTTGTAGT	120
	AAACGTAAAC CAGTTACGGC AAATTCTCTG GCAATAATAA TGATTGCTAC TACAGAATTT	180
	GTTAGTCCTA GTTGCACAAG TACAATTAAA GCACTTGCAA CTAATAATTT ATCCGCTAAT	240
50	GGATCCAAAA ATTTCCCCAT ATTTGTAACT AAATTCCATT TTCTAGCTAA ATAACCATCA	300
	ACAAAATCGC TAAGGGAAGC CAATATAAAA ATAAAACCAC TGATTAATAA CTCAATTCTT	360

	ATAAAAACTG GTATTAACAC TACTCTAAAA ACCGTAATCT GGTTCGGAAT ATTCATTATA	480
	CATCCTCATT TCTCACTAAT TTATTTCTGT TAAAAATATT AAAACTAACC ATGATCCATA	540
5	ACC	543
	(2) INFORMATION FOR SEQ ID NO: 932:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 932:	
	GATTGCGAAT GAGATTAGTG GGATGATACC GGTAGAATGG GAGCAAGTAT TTACAATAGC	60
20	TTATGTAACT GATCAAGCTG GAGAAGTCAT CTTTAATTAT ACTAAACCAG ATAGTGATGA	120
	ATTAAATTAT TATTCAGmCA TACCTAAAGA TTGCAATGTC TCAAAAGATA TTTTTAAGAA	180
	TTCATGGTTT AAAGTTTATC GAATGTTTGA TGAGTTAAGA GAAACTTTTA AAGAAGAAGG	240
25	GCTTGAACCA TGGACATCAT GCGAATTTGA CTTTACAAGA GATGGCAAAT TGAATGTATC	300
	TTTTGATTAT ATAGATTGGA TAAATACAGA GTTTGATCAA TTGGGCCGTC AAAATTATTA	360
	TATGTACAAA AAATTTGGGG TTATACCAGA AATGGAATAT	400
30	(2) INFORMATION FOR SEQ ID NO: 933:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 759 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 933:	
	ATTTTTACAA AGAAATAGTA GTCTTATATA TCTTAACATT TAATAACTAA ATCAAACATA	60
	TTTTGAGCCT TTTTTTGAAA ATTAACATTT TAACCTTTTT GATTTTACAA CAAATTATAG	120
45	CTACGTATTG AAAATTAAAG CmTTGGtTTA AGTGTTGTGT TAAAAGYTTT TATGTTTAGA	180
	TTGTTATATT ACTATGTATT CTTAAATTTG TTTAAAAAAT TAATGCTTTA AATTGATGTA	240
	TAATGGGAAT AAGAAATAAA TAAAAACGAC CCGCACGATT AACGTACGGG TCCACTACTA	300
50	AAGGGAGTCA AATTTTTACC TCGTTTGTAT CATGCAGCGT TTTACACATA CTTTTAAGAG	360
	ስጥር፣ግግስ የጥር ርተጥልጥር GAAG GTACACCTTT ልጣ፣ልጥልልርቸው ልጥልጥርልጣቸው ተለተመለአለለው	420

	ATAATGATTA TTAAATAGTA-ACTAAATACA AAATTACATG GGGTGAATGA TAATGAAACA	540
	ATACTTAATT ACTGGTGGGA CTGGTATGGT TGGATCTCAA TTAGTTAATG AAATTAAAAA	600
5	ATCAGATTCA CATATCACGA TATTAACGCG ACACGACCAA ATTTCAAATG ATAAGAAAAT	660
	TTCATATGTC AACTGGGCTA AATCTGGGTG GGAACACAAA GTTCCTCAAA ATATCGATGT	720
	GGTCATCAAC TTAGCAGGTG CTACATTGAA TAAACGATG	759
10	(2) INFORMATION FOR SEQ ID NO: 934:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 934:	
	GATCAAGCTG GGGAAGTCAT TTTTAATTAT ACTAAACCAG GTAGTGATGA ATTAAATTAT	60
	TATTCAGACA TACCTAAAGA TTGCAATGTC TCAAAAGATA TTTTTAAGAA TTCATGGTTT	120
25	AAAGTTTATC GAATGTTTGA TGAGTTAAGA GAAACTTTTA AAGAAGAAGA GCTTGAACCA	180
	TGGACATCAT GCGAATTTGA CTTTACAAGA GATGGCAAAT TGAATGTATC TTTTGATTAT	240
	ATTGATTGGG TGAATTCAGA ATTTGGACCA ATGGGAAGAG ACCATTATTA TATGTATAAA	300
30	AAATTTGGna TTTGGCCTGA AAAAGAATAT GCCATAAATT GGGTTGnAAA AATAAAGnTT	360
	ATGTTAAGAG CAAGnTTGAG CTGAACTATA GGGGAGATAA	400
35	(2) INFORMATION FOR SEQ ID NO: 935:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 935:	
45	CTGAATATAA TTTTTmCAAC TACATCTCGT TTATTAGACA CCGTGCACTG ACTAAGAAAA	60
	TTTCTCTTGA CTCCATTAGT CCTGACGAAT ACTAACATTT AACTACCTTG CTCATCGATA	120
	GAAACAACTT GTAATGTTAA TTTCCCTTAT TTTCTTAGTT TTAATCTATC AGCGATTAAT	180
50	TCGATTGCAT CTTTTTCATA AGCAATTGGA TAAACTTGAC CGCGGTACAC CTAACGCTCG	240
	AAATATGATT TTnTATCGTC ATAATCTAAA ATATTATnGG CAAAATCACA GCAGTTTTCA	300

(2) INFORMATION FOR SEQ ID NO: 936:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 619 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 936:	
	GTTATCATCA TCTTCTGAAG TATCATCTTG CCCATCGACT TGACTTGCAT CAGTTCTCTT	61
	TAAATCATCA AACTCTGGAC TAGCTAATGT ATTATATAGT GTTTTAGGTA AGTAATAATA	120
15	TTCGTTTAGC ATATCTTCTT TTAAAATATC ATCTACTTGA TACATAATTC TTTGAGCCAG	180
	ATACATATTA TCTTCAGAAT TTTGATTTTG GAAAAAATTA GGTAAATATA AGAACATATT	240
20	TACTAAAATA TCATCTAAAT CTGAATGTAT AGATGGTATA TCAAAGAAAT CTTGGCTTAA	30
	AAATGCATGT TCTAAATACA AAAATAATAA ATCTGTATAT TGTGTTTTAG TACGATACAC	360
	TTTAATTTGA GATTCCGTAT ATGATATACG TGTATCTAAG CGAAGATCAA TTAATTTAGC	420
25	AGTACTTGGG CGCTCAACTT TAATAGAATT TAATACGCGC ATATCTTCTA ATAATTTAAA	480
	AAGTTGTTGG ATAAAATTTA GGGLGTTTAA AAGTTTTATC TTGLACTACT TCATTTACAA	54
	TTTGLACATC CATCATATGA TAACCGTAAG CAGCTAACAT AACATCTGTT TTTAAACCAG	60
30	CCATTTCGAT ATGGCTTGG	619
	(2) INFORMATION FOR SEQ ID NO: 937:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 615 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 937:	
	TAATCCCTTT CATAATGGGC ATCAATATCA TATTAATCAA TCTAAAAAAC TTACAAATGC	60
45	TGACGTTACT ATTGCAATAA TGAGTGGTAA CTTTGTCATG CGTGGCGAAC CAGCAATCTA	120
	TAATAAGTTT ACTCGTGCAA AAATGGCATT ATCAACAGCT GATTTAGTTA TCGAACTACC	180
	AGCAACTGCC AGTTTATCAT CTGGcGATCA TTTTGCCGAA CTAGCAGTTA AAGTCGCnGA	24
50	TTATATGAGT GTCGATACAA TTGCATTTGG TAGTGAAAAT AATGALATCA AAACATTAAA	306
	rCmATTAgCA CACAGCATTA ATGAAATTGA mCAATCTGAA TCCTTTTCAC AAAAAGTTAA	360

	AAGTCCTAAC AACATACTTG GTATTAGTTA CCTGAAAGCA ATTGCTAAAAA ATGCTAAAAA	480
	CATCAATGCA ATTTCTATCA AACGAGAAAA TGCTCAACAT CATGATTCAT TAATTCAACA	540
5	CCATCAGTTT GCAAGTGGTA CATCTATTAG AACATCAATC ATTAGTCAAG ATGATCATTG	600
	GCATCATGTG GTACC	615
	(2) INFORMATION FOR SEQ ID NO: 938:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 938:	
20	AGAATTGAAG ATGGTAAAGT TTCAAAATAT CATTCGGTTA TCATAAAAGA CGCACAAGCA	60
	ACTTCACCAT ATTCAATTTT TATCAGAGGT GCTATTTATC GCTTTGAACC ATTAGTATAA	120
	ATATACGTAA GTGCTATGAG CGAGAATGCC CATATGAATA ATGACAAGCA CAATGGAAAG	180
25	AATCGTAATA TATTATTTAA TCGTGATGCT TAATTAAAAT GAAAAAGATT GATAATATAA	240
	ATGTGAAAAA GTAAGTATAC CCGTAAACTA AAGTATTCAC GGTGAGAGGT GCTCATGTCA	300
	TAATGATGCA CGTGTCATAA TTATAATAGC TTANATATGT CCATACAACA CCATGTAGAT	360
30	ATGCATATAC AGGGTATGAT AGACATAGnG TCTGnGAAAT	400
	(2) INFORMATION FOR SEQ ID NO: 939:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 466 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 939:	
	GTACAGGTAT GATTGGTGAT CCCATCAGGT AAATCAGAAG AACGTGTGCT ACAAACAGAA	60
15	GAACAAGTAG ATAAAAATAT CGAAGGTATT AGTAAGCAAA TGCACAATAT TTTTGAATTT	120
	GGAACAGACC ATGGTGCAGT GCTTGTTAAT AATAGAGACT GGTTAGGACA AATCTCATTA	180
	ATTAGTTTTT TACGTGACTA TGGTAAACAC GTCGGCGTTA ATTACATGTT AGGTAAAGAT	240
50	TCAATCCAAA GTCGTTTAGA ACATGGTATT TCATATACAG AATTCACATA CACGATTTTA	300
	CAAGCTATTG ATCTCGGTCA TTTGAATAGA GAATTGAATT	360

	GTAGATAAGC AAATGATTAA TAGTTGAGGG GTATGTCGAT GAAGCG	466
	(2) INFORMATION FOR SEQ ID NO: 940:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 940:	
	ATGAATCACC CATTGATACC AATCATTTAC ATCACTGTCA TACGAACATA TATTTAAATA	60
15	GAAAAAATT ATTTTAAAGA TTATAACTAC TCTTAATCAT TTTAGTGAAT TAAAAAAAGT	120
	AGTGCAAAAA GCAAAATATA CTTTATACAC TACAAATCAT TTATTTAT	180
20	CCAAAAAATG TTCCAACTAA TGAAACCGCT TGTTCAGCAG TATGATTATn ACTGTCAATC	240
	AATGGATTTA CTTCAACTAA ATCCATTGAG GAAATTAAAT GTGATTGATG CAGTAATTCC	300
	AATGCNAAAT GGCTTTCTCT ATNACTAAG	329
25	(2) INFORMATION FOR SEQ ID NO: 941:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
05	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 941:	
35	CGATATAGTA CCAATTTATT TGAAGAAAAA TCCGAACTTC AAATTTCCGA TGAAGCAAGA	60
	TATACCGGTT ATTATGATTG GACCAGGTAC TGGAATTGCT CCTTTTAGAG CATATTTACA	120
40	AGAACGTGAA GAACTTGGTA TGACTGGAAA AACATGGTTG TTCTTTGGTG ATCAACACCG	180
	TAGTTCTGAC TTTTTATATG AAGAAGAAAT AGAAGAATGG CNTGAAAATG GAAACTAACA	240
	CGCGTAGATT AGCATTTCCA AGAGNCCAGA CACAAGATAT GACAGCCNCG ATATGGAGAA	300
45	GTAACGTTCC ATGAT	315
	(2) INFORMATION FOR SEQ ID NO: 942:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 699 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 942:	:,
	TACCAATAAT CAACTTGTTT TACATCATCG TGTGTTTCAA TCACTTTCCT TTTTATACCT	60
5	TTCTTACCTT TAAAGAATGC ATCAACATCT TITATTGAAG ATCCTTTTGA ATCTTTAGTA	120
	AATCTATAAT CTGCAAGTTC CACTTTACCC ATTAATTCTT TGTAATCTTT CCATCCTTGA	180
	ATCCCTTTAC TATTCGTAAA CGACTTTTCT GTCATTAATG GATCCAACTT ATCAAGAGAT	240
10	GGCGCATCTT TAATTCCTTT CATTTTCTTC TCTATTTCTT CATATTTCTC TAAATCTGGA	300
	TCTTTCTCTT CTTCCGATTC TTTTTTTACA GTTTCTTGTT TTGATTCTTC TGATTTCTTT	350
15	GATGATAATT TATGATTCCC ACCAAAAGAA CAACCTGCTA CGACTAAAAG CATAATTAAA	420
15	AGTAAACATC CCAGTGTCTT TTTCATAAAC TTTCTCCTCT TAAGTTATTT TGTTTGAATC	480
	AAATAAACAT ACATAAATTT AAAAAACTTA TTTATATTGa TATTTTACAT TAACCATCAA	540
20	TATTTTTAAA TACTTTAAWT GATAATTTAA GAAAATTGTT TTGTCTAATA ATTTAAGTAG	600
	TTAAAACATA GATAGATATA AAATAGTTTA TAGCCATTAA TTTATAAGTT TAAAATTCGC	660
	ACTATTCAA TTTGCCATTT AAAAATAGTT TGTTTAATC	699
25	(2) INFORMATION FOR SEQ ID NO: 943:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 943:	
35	CGCTCCATAA ATCAACAATG TTCGAGTCTG TAATCTAGAT GATAAAACGC CAAGAATGAT	60
	CATAAATGGC ACTTCTAAAC CAGCACATAA ACTAGCTAAA TAACCGACAT GTTGTTCATT	120
40	TTCTTTTAAA TAATCAGTAA CAAATAAAGG CATATTCATC GTATACATCC ATTGTCCAAT	180
	GTGTAATAAA ATAAATGCAA TAAATGGTAA TAAAAGCGTT TTGTCTTTAA ACATATTAGG	240
	AGCAATTTTT TCAACATGTT GTTGCGTACT AATAGGGTGT TTAATGTTTA AATCCTTATA	300
45	GANAAACACT TGAAGTACTA AAGTAAATAA AATGATACTT ATTGGGCCAC CAAACAATCC	360
	AGCATAGCCT TTTAATCCGA TTAATTGGGC ACCAATAAAT	400
	(2) INFORMATION FOR SEQ ID NO: 944:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 570 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 944:	
5	AAGATGACAA TACTTTGTTT CAAGAATTGA AAAAAGAATT AGAACAATGG GATTTTAATG	60
	TTGCTGGTAT TGAAGATTTC GGCAAAGTAA TGGATACATT TGAAAGTTTT AATCCTGAAA	120
	TTGTTATATT GGATGTTCAA TTACCTAMAT ATGATGGGTT TTATTGGTGC AGAAAAATGA	180
10	GAGAAGTTTC CAACGTACCA ATATTATTTT TATCATCTCG TGATAATCCA ATGGATCAAG	240
	TGATGAGTAT GGAACTTGGC GCAGATGATT ATATGCAAAA ACCGTTCTAT ACCAATGTAT	300
15	TAATTGCTAA ATTACAAGCG ATTTATCGTC GTGTCTATGA GTTTACAGCT GAAGAAAAAC	360
75	GTACATTGAC TTGGCAAGAT GCTGTCGTTG ATCTATCAAA AGATAGTATA CAAAAAGGTG	420
	ATCAGACGAT TTTCCTGTCC AAAACAGAAA TGATTATATT AGAAATTCTT ATTACCAAAA	480
20	AAAATCAAAT CGTTTCGAGA GATACAATTA TCACTGCATT ATGGGATGAT GAAGCATTTG	540
	TTAGTGATAA TACGTTAACA GTAAATGTGA	570
	(2) INFORMATION FOR SEQ ID NO: 945:	
25 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1241 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 945:	
	CCGAGNCCAC CGTTCCAAAG TCCATTTTTA TCCCCATCCC TCTCTGAATT GAACTATAAT	60
35	TTTTGAATTT ATTAATAATG CTATTTTTNT TATTTTATCA AAAACTGATT ACAAATACAC	120
	ATAGAAAATG AAATATATTT TTCTTTGACT ATACATAACT GTTATTTCTT TGGATATTTA	180
40	TATTAAATGC ATTGGTAGTA GTTGTAGCGC ATTAATGTTT GACGGTGTAT AGTATTAATT	240
	ATATTGAAAG TTAGTTGGAA GTTGATAGTA GGAGTGGGAG CATTGAAGCG ATTTGTGGCG	300
	ACGGTATTAT TATTACTAGT CTTTATATCA GGATGEGGTA ATGTTAAATA TGTGAAAGAA	360
45	ATAGATGAAG CAGTTAAAAT TCAAAATCAA AAACAAGAAC ACTTGCCCAA AAAAGGCAAC	420
	GGTGATCGTG TTGATCATTT TGAACGCAAA GATGCTAATA TTTATGTCTA TGATAAGGAT	480
•	AAAATTATCA TTTTAGCTTA TAAACCTTTG AGTAATGATG ATGAAGTGCA TTATTATGCA	540
50	TATGATTTTA GTGATAAACG TGTATCATAT AAGCAAGATT TTGATTCGAG ACGATATTAT	600
	CAACAACATG ATGCGGATTA TCATGAAGAA AATATGACGA ACTAGATATG AATAGGAGTT	660

GGTAAAAAAG AATCAGCAAC GACATCTTCG AAAAACGGCA AACCATTAGT TGTCGTATAT 780-GGCGACTATA AATGTCCTTA TTGTAAAGAA TTAGATGAAA AAGTCATGCC AAAGTTGCGT 840 AAAAATTATA TAGATAATCA CAAAGTGGAA TACCAATTTG TCAATTTAGC TTTCTTAGGT 900 AAAGACTCAA TTGTTGGTTC GCGTGCGAGT CATGCAGTAT TGATGTATGC ACCTAAATCA 960 TTTTTAGATT TTCAAAAGCA ATTATTTGCT GCCCAGCAAG ATGAAAATAA AGAATGGTTA 1020 ACAAAGAAC TATTAGATAA ACATATTAAA CAACTGCATT TAGATAAAGA GACGGAAAAT 1080 AAAATTATAA AAGATTACAA GACAAAGAT AGCAAGTCTT GGAAAGCTGC AGAGAAAGAT 1140 AAAAAAATAG CGAAAGATAA TCATATAAAA aCGACACCAA CTGCATTTAT TAATGGCGAG 1200 AAAGTTGAGA TCCATATGAT TATGAAAGTT ATGAGAAGTT A 1241 (2) INFORMATION FOR SEQ ID NO: 946:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1057 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 946:

60 TAATACAATG ACACCATTTA GCATGACCGT TATCCCTGTA ATTCAGCTGA TATTATCTGT TGCAATTTTA TGTGACGAAC TGTTGCACTT AATTTGATAA ATCHACAAAT ACAAAAAATC 120 TAAGTTGAAC AATTATGATA CAACCGTGCA AACGATATGT AGTATAACTT GTCAACTTAG 180 ACTTATTGAT AAATATATTA ATAGTGGTTT ACCATAGCAG GAGATTTCAC ATCAAAATTT 240 TGAAGTAGCG TATCAATCTT TGAATCATCA ATATATACCL TATGTAAATT TTTCATATAC 300 ATCGAATGAG AAAGTGCTTC aTAATTTAAT GAAAAAGATA TATGATCTCC AACTTGATAG 360 TGTCCTTGAC CATTTAAATC AAGCATTAAA TGATCACTCG AAGCGCCTAA AATATTGATA 420 TGCTGATCCA TAGGTGAAAT ATTATCGACT TTTGTAYCTA AATAACCAAT ATCTACAATA 480 GCTTGTAAGA ATGATTCATG CGTTTGTGTA TTAACTCGAG GTTTAATTTC TAAAATCTCA 540 GCCTCCAATG TAATCGCATC TTGATATAAC ATAGCGATCG CTTGATTTGT CGTTGTATCA 600 ACACCTCTAA ACAACGTTTC ACCTATTCGC AATTCATTTA TTTTACCCAA ATCATTATAT 660 AAAAGTTGTG GTAACATGCT CGAATTACCA CCTGAAATAA TTTTCAATCG ATATCCTATT 720 TCTCTTTCAA CAGCTGAGAC GAATCGATTA ATCATAAAGA TATCATCATC ACTTGGCGCA 780 TCAGATTTAA AACACATAAA ATTGAATGCT AAACCTACAA AATGGATATT TTTCAAGTGA 840

	CAATCTACCA TTAATAAAAT CTTATGTTTT TTTCCTAAAA CTTCTGGCTA CTTCATTTAT	960
	TTGATGTATG GGTAGATAAT TCCGGTTTGG GATACCTCCA TATCHAACCT TTTTTCCTAA	1020
5	TCAATATCCT GGAAAAnCCC TTTTTTTGGG CAGGGCG	1057
	(2) INFORMATION FOR SEQ ID NO: 947:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 649 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 947:	•
	GATATCCGCT CGATGAATAT ACCTTTAAAG GTGTTGGTGC AAATTCTGAA CAATTAAGTG	60
20	CTATGAATCA TGATTCTTTA AAAAAGGAGT ACATTTCAAA TGACTGTTAA ATATAATCAA	120
	AATGGCGAAT TAACAATGGA TGGTATTAGT TTAAAAACGA TTGCACAAAG CTTTGGTACA	180
	CCTACCATTG TTTATGATGA ACTACAAATT aGAGAACAGA TGCGCCGTTA CCATCGCGCA	240
25	TTTAAAGATA GTGGATTAAA ATACAATATT TCATACGCCT CAAAGGCATT TACTTGCATT	300
	CAAATGGTCA AACTTGTAGC TGAGGAAGAT TTACAGTTAG ATGTTGTTTC TGAAGGTGAA	360
	TTATATACAG CTTTAGAAGC AGGTTTTGAA CCGAGTCGCA TCCATTTCCA TGGTAACAAT	420
30	AAAACGAAAC ATGAAATTAG GTATGCTTTA GAArATAATA TCGGTTATTT TGTTATAGAT	480
	TCATTAGAAG AAATTGAATT rATAGACCGC TATGCTrATG ATACGGTTCA AGTTGTATLA	540
35 [°]	CcGAGTTAAT CCcAGGTGgT TGrAAGCcAC mTrCaCaCgA aTTTATTCaA ACyGGGcaaG	600
	AAGGATAGGT TAAAGTTTTG GGATTAAnCC nnTTTCCCAT TAATGGGCC	649
	(2) INFORMATION FOR SEQ ID NO: 948:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 472 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 948:	
	TACAAAGCTT AAAAACAGAG CTTAGTYTCG TTGAACCATT AATTAGCCGC TTAGAATTAG	60
50	AAGAAGCTAA TGATAAACTA GCTAATATCA ATGATAAGTT AGATGACATG TATGATTTAA	120
	TTGAACATGA AGTTAAAGCT AAAAATGATG TCGAAGAAAC AAAAGATATC aTTACGGATA	180

	AAAACTACTA TATAAATGAA TCTGATGCTC AGAGTGTTCG TCAATTTGAA AATGAATTC	300
	AAAGTTTAAT TTCTGTATAT GATGATATTT TAAAAGAAAT GTCTAAATCT GCTGTGCGAT	360
5	ATAGCGAGGT TCAGGATAAT TTACAATATT TAGAAGATCA TGTCACAGTT ATTAATGACC	420
	AACAAGAAAA GCTACAAAAT CATCTGATTC AATTGCGTGA AGATGnGCAG AA	472
	(2) INFORMATION FOR SEQ ID NO: 949:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 949:	
20	AGAGGATCCC AGGCGTTTGT TGATCCAGCA GCCGATNCAG AATACATCTT CTATGCATAT	60
	AAACGTTTCA ATTTCGAATT GAAAGATCCA AACTTCACTA GTGAAGAAAA TATGTTTAAA	120
	GATGTATCAG ACAAACCATT AATACCTGCT CGTAAAGCTC AAATTACAAA TGCGAACTAT	180
25	AAACGACATG GTATGAAGTT GATGATTCTT GGGAATGACG AACCATATAA CAATGAGTTC	240
	AAGAAAGATG ATCGAAAATG CGAAGAATGA GAAATTTCAA AGGTGCGCAn GTCAAGCCAT	300
	GTGTCAGGGG GGCATATGAT TTCNGGTCAT CAGTAAGGAC TGTGTCATGC CATGGCCATC	360
30	TGTTGTACnG ATCTCTAATA GAATCTCAGA TGCCCGGCAA	400
	(2) INFORMATION FOR SEQ ID NO: 950:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 556 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 950:	
	AAAATCTTCG ATGACAAAGA AATCTAATGA TGTTTCTTTA AAATGACCAA ACTGCAACGG	60
45	AATGATATAA CCACACTTGA GATATGGCGC TTCTTTTTTC AACTTAGTCA TCACATCATA	120
	ATCCAAAGAC ATCACACGAT ATTGATGTTC AACACCATGC TTTTTCAAAA TATCAATAAC	180
	ACSTTGTGTA TAATCTGCTG GTTCTTTACC ATGTGGCTTT AACTCTACTA GTAGCTTCAC	240
50	ATTTGATTGT TTAGCCGTTT CAATAAATTC GTCTAAGGAT ACAAATTTTG CTTCATGTCC	300
	ATTTTGACGC ATTTTCAAAC CGACGATATC TTTGAAATTA GATTCAGAAA-TATTTTTATT	360

•	CATAATTGTA TCTAACTCAA CGTATTCGAC ATTCGCTTTT GCAGCAGCTT TCAATGACGG	480
	AATAGAATTT TCAACACCTT TATCTTCGAA ACCACGTGGC CAATAATGGA GATATTGTAA	540
5	TTGATAGTAT TATTGG	556
	(2) INFORMATION FOR SEQ ID NO: 951:	٠
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 469 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 951:	
٠.	TTGTGGTAAT GATGTTAATC AGTATATTTC TACTTTTGAC AATGACATCT AAAGGATTAA	60
20	GCAATCTTAG AGTAATAGAT GATGAGGCAA ATATCATTTC TTTTATTACT GAATTGAATT	120
	ATATTAAGTC GCAAGCTATA GCAAATCAAG GATATATCAA TGTTAGATTT TATGAAAACA	180
	GTGACACTAT TAAAGTAATA GAGAATAATA AAATACGATT TCTAAAATTA AAAGTAGGCA	240
25	AAATAATTAA TGTTGCAAAA GTTGATATTA TTGCCTTTGA TAAAAAAGGG AATATCAATA	300
	AATTTGGTAG CATAACAATT TACAATAACA ATTCAATTTA TAGGAATAAT ATTCCATATT	360
	Gaaaaaggca agaattcgtt atgaaaagct ataagtgtaa aggttcattc ttaatagata	420
30	GTATGGCTGG nTTTTTGCCA ATTGGGATTG nATTACATTA CTATTGATT	469
	(2) INFORMATION FOR SEQ ID NO: 952:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 730 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 952:	•
	ACATHTATAA THOTTATTTG CTTGCTCCTT TCACTTTTTA AGAGTAAAAH ATAACCTGAA	60
15	ACATAACTTT AACATCCAAG TTTCAGGTTA GTGTAATGTA AATGATTTAC TTTGTTnTAT	120
	TATGATTAAA CATCTAATTC TCTGCTTGTA AGTGCTTTAA TCATCTCTGG ATCAGCATGT	180
	GAGAAAAATT GGCTATTACT TTCTTCTAAT GTCGCAATTT GTTGTTTATC TTCTTCTGTA	240
50	AGTTCAAAAT CAAATATATC TAAGTTTTGA GCCATACGTT CTGGATTTAC TGATTTTGCG	300
	AGTACAACAA TGTCACGTTC TACTAACCAG CGTAAAATAA CTTGTGCAAT TGATTTGTTG	360

	AATGGTGCCC AAGCTTCTAC CACAACATTT TCTTGTTGAA GTGCTGCAAC TTGTTCTTCT	480
	TGTTGATGGA ATGGATTAAT TTCTATTTGG TTCACTTGTG GTTGAATTTG ATTGTGAATA	540
5	CCTAAATCTA CAATTCGATC AACGCCGAAG TTAGATACAC CGATTGCTTT AAATTTTACC	600
	ATTTCTTT AACTCCTCCA ATGCACGCCC ATGGAGCCAT ATACHGCCAT TGGTAAAGGT	660
	TGGGTGGAAT nAAGCACCTA GGATCCAGGA TAGGTCCCAA ATTTTAATCC GGTGGGnAAT	720
10	GGATCGGTTC	730
	(2) INFORMATION FOR SEQ ID NO: 953:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 953:	
	ACAAATGACA ACGTACAATG ACGTCTTCAC AAACATGCAT TTTAGGAGAT TGATTATTAC	60
25	AAATATCCAG TTTTTTGTTA CATCTATTTG CAAATCTGCA CTTATTAACG TGAAATGCTT	120
. •	GGATTGATGG CACAATTCCT TCTATCGTTT CAAGTCGTTT CTGCTCTTCT TTAAGTTTTG	180
	GAATTGTTGA TAATAATTTT TGGGTATAAG GATGTTTCGG ATTGTGTAGT ATTTCTTTTA	240
30	TGCCTCCAAA TTCTACAATT TGACCTGCAT ACATAACTAA GACTTTATCG CAAAACTCAG	300
	CAACTACACT CAAATCATGT GTAATCATCA TAATTGCCAT TTGCGTTTCC TTTTGCAATT	360
35	CTTTTAATAA GTCTAATATT TGCGCTTGAA TCGTGACATC	400
	(2) INFORMATION FOR SEQ ID NO: 954:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 954:	
	TAAATCTTGA GGACGTTTGG TCTGAAAGCG ATGCTCAACT GTTGATAAAT CCAATTCGAT	60
	AACATCTGTA TAATTAGGAT CTTCTTTCTC AACATCAAAn ACATATGGTT TTGTTTCAAA	120
50	TATTCTTTTA CTAGCGCGAT ATGTTCGTCT GATCTACCAG TTAACTTCAT ATATTTAAGA	180
	ATTOTOATOA ACTGGGGAAG AATCCGCAAG TTGCTCCATA CTCTGGTGCC ATGTTTHCAA	241

(2) INFORMATION FOR SEQ ID NO: 955:

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(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 514 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 955:	
	AAACATTTAC ACAAGTAGTA GAAGCAATTT ATGATGAAGA AGGTAACAGC TTaGamgCGG	60
15	CGCGCCATCC ATTACAAATC GTTCAAATTA AAGTGGATCG CCCGATATAT CCAAACAACA	120
	TGATGAGAAA GGAAATTGGC TAATGAAAGC TACTACAATC ATTGGCATAG CTGGTGGATC	180
	TGGCTCAGGA AAAACAACTG TAACTAACGA AATTATGAAA AACTTAGAAG GTCATAGTGT	240
20	CGCTTTACTT GCTCAAGATT ACTATTATAA AGATCAAAAG CACTTGACTT TCGACGAGCG	300
	CCTAGAAACC AATTATGACC ATCCATTTGC ATTCGATAAT GATTTATTAA TTGAAAATCT	360
	TAAAGACTTG AAAAATGGTA AAGCAGTAGA AGTACCGACA TATGATTATG CLAGTCATAC	420
25	AAGAAGTGGA CATTACCATT GGATTTTLAA ACCTAAAGAT GLTTATTTAT CGTAGAAGGG	480
	CCTTTTCGC CTTTAGGAAA ATAAGGGTAT TTAC	514
30	(2) INFORMATION FOR SEQ ID NO: 956: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 956:	
40	ATTTTAACGA ATATCTTGCC GTACGATGCC CAAGCTGCAT CTGAAAAGGA TACTGAAATT	60
	ACAAAAGAGA TATTATCTAA GCAAGATTTA TTAGACAAAG TTGACAAGGC AATTCGTCAA	120
	ATTGAGCAAT TAAAACAGTT ATCGGCTTCA TCTAAAGAAC ATTATAAAGC ACAACTAAAT	180
45	GAAGCGAAAA CAGCATCGCA AATAGATGAA ATCATAAAAC GAGCTAATGA GTTGGATAGC	240
	AAGCCATAAA GTCTCACCTG AATGACGGTC AAGTGTATAG CATAATAGTC ATGCTAAGTT	300
	AATGAGTCTC AATGTGTAGG GCACAAGTGC GGGCGTCTAT GCATGAATGT TGCCACGCTC	360
50	ACAACTGGGA AGTGTAAATG TGACTGTA	388
	(2) INFORMATION FOR SEQ ID NO: 957:	

5	(A) LENGTH: 394 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 957:	
10	AACAAAGTAC ATCGCAGTTA CGAGAAGAAA TAAATGCATT GTATAATCAA GTTATAGAGG	60
	TTGGACAAGC GTTATCAAAG CAGCGTCGTA TAGTCGCTAG GGAGTTAAGW GACCACATTG	120
	TATCGGAAAT TCAAAACTTA CAAATGAAAG ACGCAAATCT TGAGATTTCA TTTAAAAAAAT	180
15	TAGAAGAACC GAATATTGAT GGAATCGAAT TTGTAGAATT TTTAATCAGT CCAAATAAAG	240
	GGGAACCATT AAAAAGTTTA AATAAAATTG CGTCAGGTGG AGAACTTTCT AGAATTATGT	300
	TAGCGTTAAA AAGTATTTTT GTTAAALCGA GAGGTCAAAC TGCAATTLTT TTCGATGAGG	360
20	TTGaCTCAGG TGTATCtGGr caAGCTGCAC CAnA	394
	(2) INFORMATION FOR SEQ ID NO: 958:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 503 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 958:	
	CCGCCATTTT TTTCGATTTC TTTTTCAAGT TTTTCACGGT CTTTTGAAGA TAGACTATTG	. 60
35	AAATCTTTTG CACCACTATC ATCAAAATCA ATATCTGCTT TCAATTTTGT GCTAGATTTT	120
	AAAATGAAAT TAATTGGTTC TTCAGCATAL TTGATGCCGA TATYTAACGT AGATTTCTGA	180
	GTGTTATTYT TTACGTCAGA ATCTATATTA TTTTCAAAAG TGAATTCATT TTCGTCGCTA	240
40	TATTTATCTA ATGCGACAGT GATTTTACCT TTATCTTGAC GTTTTGTGCC ATCTACTTTT	300
	TCTTGGTTAT CTAATTTGAT TTTTGATTCA TCATATTCTG TCTTTTTACC AAATTCGTAT	360
45	TTATCATTAT ATTTATEATC TTTWTCTTTA GAAGATACGC CTTTAATTGT ATATTTCGCT	420
45	TCAGCATACG TGTATTTATC TTGATCGAAA TCAAGTGCGT AATCTAGTTT TAACTTATCG	480
	TCTTCTAAAG TATTAGTACC TTT	503
50	(2) INFORMATION FOR SEQ ID NO: 959:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 959:	
	TCAAACGTAC AGAGCTTGTT AAGTGTTTAG ATTATTTACG AGAGAGCGAC ACATTAGTTG	60
5	TCTATCAACT TGATCGGTTA GGTAGAACGA CAAAACTATT AATTGAATTA TCACAATGAT	120
	TCGATGATAA CGGAATTGAC TTACCANATT AGTAACCTGA ACATTTCCAC GAAAGACCCC	180
10	ATGGGGCCAA AATGTTTTTA CCGATGATGA GTGCCTTTTT CCGGGTTAGA AGTTAATTTA	240
:	CTATGTGAGT GTATAAAATA GACTNAGCAG CCACAAGNCG AGAGGCCGAA AAAAGCGGGC	300
	GCCCTCT	307
15	(2) INFORMATION FOR SEQ ID NO: 960:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 960:	
	ATAAGGACAT TTATAGTCGC CATATACGAC AACTAATGGT TTGCCGTTTT TCGAAGATGT	60
	CGTTGCTGAT TCTTTTTTAC CGCAAGCTGT TAAAATTAAC ATGCTCACTA TAAATAATGT	120
30	TAGTAATTTT TAGTCCATAA TTACTCCTAA TCCTAACCAN GTCnGCnAAA TTTCCTCCAT	180
	GATAATCCGC ATCATGTTGT TGATAATATC GTCTCGAATC AAAATCTTGC TTATATGATA	240
o <i>E</i>	CACGTTTATC ACTAAAATCA TATGCATAAT AATGCACTTC ATCATCATTA CTCAAAGGTT	300
-35	TATAAGCTAA AATGATAATT TTATCCTTAT CATAGACATA AATATTAGCA TCTTTGCGTT	360
	CAAAATGATC AACACGATCA CCGTGCCTTT TTTGGCAAGT	400
40	(2) INFORMATION FOR SEQ ID NO: 961:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 961:	
50	ACAATTAGTT ATACCCAAAA GAGTTATGTC AGTGAAGTAG ACAAGCAAAA CTCAAAATCT	60
	CTTALANCE CTCTTALACC ARCCARTT CTTACCCCTC ATCGARARA ATCTGCCAT	120

	GCTCCTGATA ATCAATTGCC ACCTTTAGTT CAAAGTGGCT TTAATCCATC GTTTATCACT	240
	ACACTATCAC ATGAAAAAGG TYCAGTGATA CGAGTGAATT TGAAATTTCA TATGGTAAGA	300
.5	ACTTAGATAT TACCTATGCG ACTTTATTCC CTAGAACTGG TATTTACGCn GGAAGGAAGC	360
• •.•	ATAATGCATT TGGAAATAGG AACCTTGTAN TTANGTATGG	400
	(2) INFORMATION FOR SEQ ID NO: 962:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 962:	
20	CTTTTACAAA GACAAATTAG CGGTAATCGG TAANGATCGT TGTTGATCCA GTTGCACTAT	60
	TGAAAGAATT AGACGGATTA AATGAACGTG GCATTCCTAC AAGTAATTTA CGTATATCTA	120
	ATCGTGCGCA AGTGATTTTA CCATATCACT TAGCACAAGA TGAATATGAA GAACGTTTAC	180
25	TGGTGACAAT AAGATTGGTA CACTAAAAAA GGTATCGGTC CAGCATATGT AGCCAAGTCA	240
	CGTATCGGTA TCGTATGCAG ATTACTTGAA AAGAACATCG AAGATATTAA ATCAACATGA	300
30	TATAACCAGC TATTCAAGGA TGTTACGAAC ATGNCACATT GATGAANCTT GAGATATA	358
	(2) INFORMATION FOR SEQ ID NO: 963:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 963:	
	AGTGAGCAGG TTGAAGTAGT AGGGCCGATT CAAATGGAAA GAGATACACA TAAAGATGGT	60
45	AAGGTAAAGT GGCAATTGCT TTATATAATG AATCAGGATG ATGATGAAAT TAAGCCACCA	120
40	TTTTTTATTC AATGGGAGGA AAGTGATTCC ATTGCGTACT AAAAAATTGC AAAAATATTT	180
•	TCAAAACCAT TTTCAATTGA AACTGTATTG TGAAAGTAAA ACCGTCACAA CAGTATCGAT	240
50	TGGTTGAAnT GGTTGnAT	258
	(2) INFORMATION FOR SEQ ID NO: 964:	
**	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 964:	
	TTATCAAACC GCCATAGCCA CATCTCGATT CAAGGATAAA TTTGTTTTCT CATATCTTAT	60
10	CTCTCATGAC AGTGCACGAT ATATATCTTT TCCAAATATT CATCACTTTT TTCCTGTTAA	120
	AATCATTTCT ATTATTAATG CTTTAATGAC AACTTATTTA ATTTATTGCA TTTAATGCCC	180
	TGCTTCATTT TCAAATATTA ACTTTAATCG ACTAGCTCAT CACACTATTT ACCCTTTCCA	240
15	CCTATCACTA CTGAATTCAA AACGATTTGT TTACAAATCC CCTTATGCCA ACGGTCGAAT	300
	TTCATCATGT TTACATTTAA TTGCAAATGC CCTCTTGAAA TATTTTAAAA TTAATATTAT	360
	TCTTAGCATA CTAGTCGGAA TTATATTC	388
20	(2) INFORMATION FOR SEQ ID NO: 965:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 602 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 965:	
	AAAGTGAGGT ATAGTCCGAC CATACTCTAA AAACGTAGCG AGATAAATAT ATTTCAATCC	60
	TAACTTTTAT GTTTTGAGGC ACTTGCCATT TAGGATATTG TCGTTCGTAA TACGACACTT	120
35	GTTGTATAAA TACACCTAGT CCAAATGGCA GCATCATGAG TAAGATACTT CTTAAATAAC	180
	TTAAACCAAT ATCATGCCAT ATGTGTCCAA TAATCAATTG AAAGACAATG ATAGATACTA	240
40	TTAAAACGAT TATATTTATT GTCACTTGTT CAAACGCACT CCTTTTCCAA ATAATAGAAT	300
40	TGCTGCTTGC ATGACAACCA TAAAACATAC AAACATAGCA GTTTTAAGCG TTAGACTTTC	360
	TAGAATGTGA TTTAGAACAT GTAAGGGCTC ATTAAAGAAA TAAACGGAAT GTAAGCGTAA	420
45	GAAACGACCA ATATAAATTC CGAATCCATT TAAAAACATT AGCACGACAA CYATTAATCT	480
	ATTAAGCCAA CGGTGAGAAG TCAATGLTAG TATTTCAAAA TAGATTHAAA TCATCACATA	540
	AACCGCTAAG AAGACACCAA GCAGTAAATA GGTAAAGTAT TTCCACTCAC TTAAATTTAG	600
50	TC	602
	(2) INFORMATION FOR SEQ ID NO: 966:	
65	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 744 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 966:	
	GTCCTAAGGT AGATTTATCT ACAACTGTTG TTATTTTANC AATTATTGGA GCGATTTAT	60
10	TAATGTTTGC TAGCATATAT TTTAThAAAA TTGTGACATC ATACTTTACT AAGAAACTTT	120
	TAGAAATTAA ATTTAATTCG AAATAGTATT TTCAATGAAG TGCTTCAAAG CTAAACTTTC	180
	ATGACATTTT TTTGAAACTA GAGAAAATGG CTCATCAACT TCTAGCtGAA TGCCTTCTTG	240
15	AAAATGTATT AATGTTGAAT TCTCTATGGC AGTCATACCA ACAATATAAT GTGCATTGAT	300
	ATAAATTTGT ATCGGTGCAC GTTTATGTTT TAACGGAAAA AGTATAGTTT TTGGGTTGAT	360
	GTAAATAGGA ACCAGTTTAT TAATATTTAG TATGTTTTTT GCAGTCTCAA TTAGCACACT	420
20	TTGTGATGAT AAATGCAATT TCGCATAATA TGFAACGAGT TTGTTAATTG GAACTTTAAG	480
	AATGTAATCG CAATGTAAAA AGACACAATT TGTTTCGAGA TGGTTTGAAG TAGCAGTTTG	540
25	GATATAAAGT AGATATTTAG TAGAATTGTC TTGCAAATAT AGTACTCCTC GTTTAATAAG	600
	TTGTTAATTT AATGGTTAAA ATAAATTTAT ATGAAGATGT TAGGGTGTTT CAACATCATT	660
	AACACATCGA CCGAAATTTC ACAATAAACT AATTAAAATT ATGTTGGCAT TTACGCTTAA	720
30	CGGACATCTT AATTAATTTA ATCG	744
	(2) INFORMATION FOR SEQ ID NO: 967:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 503 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 967:	
	TACTTTGCAG GAGCATTAGG TATTCTAGCA TTTATAATGT CAATTGTATT GATTCACGAT	60
45	CCGAAAAAGT CTACGACAAG TGGTTTCCAA AAGTTAGAGC CACAATTGCT AACGAAAATT	120
	AACTGGAAAG TGTTTATTAC ACCAGTTATT TTAACACTTG TATTATCGTT TGGTTTATCT	180
	GCATTTGAAA CATTGTATTC ACTATACACA GCTGACAAGG TAAATTATTC ACCTAAAGAT	240
50	ATTTCGATTG CTATTACGGG TGGCGGTATA TTTGGGGCAC TTTTCCMAAT CTATTTCTTC	300
	GATAAATTTA TGAAGTATTT CTCAGAGTTA ACATTTATAG CYTGGKCATT AWTATATTCA	360
	GTTGTTGTCy TAAWAWTAWT AGTTTTLGCT AATGGACTAT TGGGTCAATA ATGGTTAATC	420

	TTTTCCnAAn ATTGCnGGGG AAG	503
5	(2) INFORMATION FOR SEQ ID NO: 968:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 465 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) topologi: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 968:	
15	TACAGGTAAA AAAGGTGGTC CGTTTATCGA TTCATTAAAC CATCGTAGTT ACACGAAAGC	60
	ATATGTTTCA TCAGAAACCG ATATTCCATT TTATGCTGAA GCATTTGGAA TTAGAGAAGA	120
	AAATGTTGTA CCAACAGGTG TACCACGTAC TGATGTACTA TTTGATGAAG CTTATGCAAC	180
20	ACAAATTAAA CAAGAGATGG AAGATGAATT GCCAATTATA AAAGGTAAGA AAGTTATTCT	240
	ATTCGCACCG ACATTTAGAG GTAATGGTCA CGGTACGGCA CATTATCCAT TTTTTAAAAT	300
25	TGATTTTGAA CGTTTAGCAA GATACTGCGA GAAGCATAAT GCAGTTGTGT TATTCMAAAT	360
20	GCATCCGTTC GTAAAAAATA GMCTTAATAT TeaCgTGAAC CATAGACCAT ACCTTAATCC	420
	GATGTGGTCC AGATCCATCC GTGGAAAGTT AAACGGATAT TCCnC	465
30	(2) INFORMATION FOR SEQ ID NO: 969:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 969:	
	AATTCGGAAC AACGAGCTGG CAACAACATA AGATGACAGA GGCGAATGGT CAATCAATTC	60
	AAGTTAACTT AAATAATGCG CAAnGCGATT TGGGATATTT AACTGCTGGT AATTACTATG	120
45	CAACAAGAGT GCCGGATTTA CCAGTAGCGT TGAAAGTTAT GAGGGTATTT ATCGGTATTC	180
	GTAAAGATGA TACAACAACN ATTTACTCAC ACCTATACTC TAAAAGATTN CACACGTCAT	240
	CACAACGGCG ACTTGAGCAA CATGGACAGT TCCTAATGAA CATAATCAAC GGTATTGTTC	300
50	(2) INFORMATION FOR SEQ ID NO: 970:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 970:	
5	ATACGCGAGC GAACGGTGAA GCGACTTGCT GCTGCAAAAC GTCTGCGACC TTGAGCAACA	60
	ACATGAATGG TCTTCGGTTT CCGTGTTTCG TAAAGTCTGG AAACGCGGAA GTCAGCGCCC	120
	TGCACCATTA TGTTCCGGAT CTGCATCGCA GGNATGCTGC TGGATTATCA TCCGATTTTT	180
10	AAAACGTTAT TAGGCGTTGT CGTTGCAATT CAATTTACAG TACCTGCTTT GATTGGTGCA	240
	TTGGTTGCCA TGAAATTTGA CCTATCGCCA TTAGCAATTG CTGTTGTGGC AAGTGCAGCA	300
	TATGTAGGAA GCGGTGCAGC GCAGTTTAAA AATGGTGCTT GGATGATTAC GGGTATTGGT	360
15	GATTTAATnA ATACAATGAT TACAGCAGCG ATTGCAGTTG	400
	(2) INFORMATION FOR SEQ ID NO: 971:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 971:	
	AAGTGTAAGA TTAGAATAAA AAATTTATAA ACGAATTGAG AAAGACCAAA GCTAGCAATT	60
30	ATTCAGAAAT TAAATCGAAG AGTCCTACAG TTAATGACTT ACCTGAACGA GATTTATCnA	120
	ACAAATCTCA GTATGACCAA TATGGCAAAT GCCGTGTCCA TGTTAACTGA TGAAAAGTAC	180
35	TTTGGTGGTA GTTTTGAAAG ATTACAAGCA TTGACGACAA AAACAACATT ACCCGTATTA	240
	TGCAAAGnCT T	251
	(2) INFORMATION FOR SEQ ID NO: 972:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 972:	
50	TGAAGUTCTT AATAAATCTT TTCTTGAACA CACACCAACA AAATCGTTAT CTTCATTAAT	60
50	AATAAATAAT GTACTTACAT CTTCTAAAAA AATTGTACAA ATAGCGTCAT AAACTGTTGT	120
	ATTCTCTCTT AGCACAACAG GTTGAGACAT ATAGTCCTTA ACCTCAAATT GTCGAAGTTT	180

	TTCTAAAAAA CCTGACATTG TTAATATCGC TAAATCTGGT CTAAGCGTTG CTCTTGTTAA	.300
	ATTCAACTTA TCTGCTATTT GTTCACCAGW AATGGGTCCT TTAGTTTTAA CAATTTCGAT	360
5	GATTCGTTCT TGTCTTTGAC TGAGTTCTrw AGGKCTTCAc CCCTTTLTAT GCnC	414
	(2) INFORMATION FOR SEQ ID NO: 973:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 747 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 973:	
	GAAATCGATA CTAATATCTT CTTTATTTAC ACCTGCTAGT TCAGCTTCTA AGTAATATAA	60
20	TTCGTCTGTL CATALATATL CGTLACAAAT GAAGGTGTLG AAAAGTAATT AAATACTTGT	120
	TTACCTAAAT CTTTAAATGT ATCACTTGGA TTACCGTTAA AAAAGTTTTG ATTCTCGAAT	180
	TGATTGAAGT TCALATCATC ACTTCCATTA TAGAAATTTG TATTACAAAG CCATTATATG	240
25	AGTAGTATTA AAAAAGTTAA AGTAAAAGGG GAGATAAAAA AGTAATAAAT GGGTAGATTT	300
	. GTGCCTGATA AGGAATCAGG GCAAAAGAAC TGAGCATCGA GATTTATACA AGCAATAAAG	360
	ATAATGAATA AACATATCGA TGCATACTTC TGCCCATCAC CTTATGATAG GGAGTTATTT	420
30	TTTGTCGGAA TAGTCAAAAT TTTTAGAAAC AAAATTCCGC AAATTATTAA TTATATCTGA	480
	TGCTTCTCGT TCTGAAATGT TGAATTCATT AAAGACCTTA ACAGAAATTT CAGCAAGAGG	540
35	GCTTTTATT GCTTTACCTT GTTCTGTTAG AGAAATTTGT AGGTTTCTTT CATCTTTCTC	600
	TTCACGTGTT CGAACAACGT AATCTTTCTT TTCTAATTTC TTTAGTAATG GKGTCAGTGT	660
	TCCAGAATCT AAGAACACAC GTTCACCTAA TTTTTTGATG TTAAGTTTTT CATCATTTTC	720
40	AATCGCCAAT TAAACCANGG TANCNGG	747
	(2) INFORMATION FOR SEQ ID NO: 974:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 974:	
	TGCTTCCAAG TAATGTGGAC ATTTAATACG AGCTGGGATT GAGATACACC TTGCAATGCT	60

	TCTTGGnCAT TTGCATTGCT TCTCCCAAGT GAATGCCTTT AACAGCTTGT GTCATCATCG	180
	ATGACTTGCC ATTGAAATCG ACAACCTTCA CCTTCAAACT TAGCATCTTT TATAATGCCG	240
5	nCTTCTATAT CAAATGT	257
	(2) INFORMATION FOR SEQ ID NO: 975:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 451 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 975:	
	CAATGGAGCA TATTTTACGT TCGGCAATGG ACATTGATCA NACAACAAAA CATTATATAA	60
20	mTAATAAAGT AGAAGTTATC AAAGAAATTA TTAAAAAAGT AAGAGGGGGA AATCACGTGA	120
	CATCACAAAA TCCAGAAGTT AATTACGAAG CATTAGCTAA ATATGGCCGC GACTTAGTAG	180
	AAGAAGTTAG ACAAGGTAAA ATGGATCCTG TTATAGGAAG AGATGAAGAA ATTCGAAATA	240
25	CGATTCGTAT TTTAAGTCGT AAAACTAAAA ACAACCCTGT GCTCATTGGT GAACCAGGTG	300
	TTGGTAAAAC TGCAATTGTT GAAGGATTAG CGCAACGTAT AGTTAAGAAA GATGTGCCAG	360
	AATCATTATT AGATAAAACT GTTTTTGAGT TAGATTTAAG CGCATTAGTA GCGGGCGCTA	420
30	AATATCGTGG TGAATTTGAA GAGAGATTAA A	451
	(2) INFORMATION FOR SEQ ID NO: 976:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 571 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 976:	
	AACTATTAAT AATATTAAGT TCACTACAGA TGTTGCTAAT GGACCATAAG TTTTAAAGAC	60
45	ATCTTCACTT TTATAACCAA CAATCGCATC TAAAAATTGA ACTAAGATCA TTGCAATGGA	120
	TATAGTTATC AAAAATATAG CACTATGAAT GACTAAAGAA ARAATAGCTA ATAAAAATAA	180
	AGGTAAGCTT CGACTAAGTG CATAATATGC ATTTATATTA TGGCTAGATG CACATGCTTG	240
50	AATTGAATAA CCTAAACTTA CACTGGCACT GATTATTGTA AATATTGCTA AAACAAAATA	300
	CATGTTAATC CTTCTTTCTA TATTTGGATA TAAACAAGTA CTTGTCTAAA GTTATTTAAA	360

*	TATAACTATG TCATAAACTG AATTTGTTGA AATTTTTCAT TATGCAAATT TATTAATAAC	480
	AAACAGCTCG AACTATAGCA TCATTTTACT AATGAATGCA TTAAAGTAAC TATGACTAAA	540
5	AATGCATATT AATTATCATT ATTAAGACTA T	571
	(2) INFORMATION FOR SEQ ID NO: 977:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 977:	
	CCCGAAAAAA TTTAGACATT TTCAAACAGT AACATTTGAA GATTTGTCTA AGCTGGAAAA	60
20	GAGTAGTATG CCATCAGGGG TCGGTATATT AGGCTATGCT GTTGACAAAG GTGTTGCTTT	120
	AAACAAGGGG CGCATTGGTG CAAAAGAAGG ACCAGATGCG ATTAAACAAG CATTTGCAGG	180
	TTTGCCGGAT TTGAATCCAT GTGnACTTTA GTCnGATTAC CGGAATGTTT ATCCTGGTCA	240
?5	TGGGGGAATT AATTGGATAC CCCAAAAAGG AATT	274
	(2) INFORMATION FOR SEQ ID NO: 978:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 877 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 978:	
	nTnTTACTTC TTCTTTTAAT ATTTCTCGTA TAGCTTCAAA TTTTTCACTG TCAAACAGTG	60
10	TTCTTAATAT CCCTTGCTTT TCACGACTGT TTGATATTAA AAAGCGTTTG AATTCACCTT	120
	GAGGCAAAAT AAACAATTGT CGGAATTGAT CTGCATTTAC TCCTAATAAT TCAATAATGA	180
15	ATTGGGTACC TGAAATTACT TTACTTTCTC TAATTTCATA CTTGCCATCC ACCATCTCAA	240
.5	ATACATCAAA TTTAGCGTTC GTTTTTGTTG TATTACCTTC TTTGATATAA GGGCCTTGTC	300
	TATGCACTTT ATAAATTCGA TGATTTAATT GAAATTCAAA TGTTACTGAC ATCGGCTGTT	360
io	TACCATCAGC GAAATGACTT CTCAAATCAT TTTCTTCTCT TTGTTCAGTT GATGCTTTAC	420
•	CAAACAAGGC ATAAGTCATT GCATCAAAAA TCATTGTTTT ACCCGATCCA GTCTTACCAC	480
	TTATTAAAAA CAATTCATTA TTATCAATTT TAGAAAAATC AATTTCTTCT TTTAAAAAAGG	540

	CGTTTTCTAA AATATTTTTT ATCTTTTTAG ATTGGATATC CGATAATTCT TTATCAGTTA	660
	TATGTTTATA AAACATTTCG ATAATTGACA TGTCATCTTT TTCACTTATT TCYATAGCAT	720
5	TATTTCTTC ATHGTAATTA AAAGTTTCAT TCGTCAGCGC TAAAGTATTA GGATAAATIH	780
	GTTTTAAACT CATCATTGGA TCAGTAATAT GAGACATATT TTTAAGTTTA AAATGTAAAA	840
	TAATTATCGT TATHTTTCAC ATGAACTTHT TCATTAA	877
10	(2) INFORMATION FOR SEQ ID NO: 979:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 624 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
22	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 979:	
20	ATTGGTACTA TACCATTTGT CCATTTTAGC GAAGACGTTA AACTATCGAT TAGCTAGTGA	60
	AGAAATTAAT CTCACTATAC CTTCTATACA TAAGCAAATT AAAAATTTAG AACAGCATCT	120
25	CAATGTGAAA CTATTTGAAA CTTATAAAAA TCAAATTATC TTGACTGAAG ATGGTCATAC	180
	ATTICTICCA ATTGCGCAAA GTTTTATTGA ACAATATGAA AGTGGCATCA AACATATCCA	240
	ACTTAAAAAA ACGATGTTTC AATCGAAATT AAATGTTGTC GTGTCTTCAT ATATCGCGAC	300
30	ATTCATTATG CCCAAATTT TAAAATCTTT CTTTAACGAG CATCCTTTA TCGATGTTTC	360
	TCTTCATGTC AAAAATGAAA ATATTGAAAA AGATATTAAT AATCATACGT ATGACATCGG	420
	GATTAGCAGA AATCAACCTA AACTAAGAGA AGTTCATTCT GAAAAAGTAT GCGAAGGTAA	480
35	AATTGTATTG ATTGCTCCCA ATAAAGAGAA TAATCATCTT CTAACTGAGG CATCTTTATT	540
	TGAAAAATAC AAAATAATAA GTGATAACCA TCCAGAATAT TGGGTCATCA CTTAAAAATA	600
40	ATATTTAAA TATTTATGAA AAAG	624
4 0	(2) INFORMATION FOR SEQ ID NO: 980:	02.
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 457 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 980:	
	TTTGTCCTGT TGCATAAACT GCAGCTAGCA TAATGTTAAT TGTTGCACCT ACGCTAACCA	60
	TITATECTAL IGAILBROT ACUACTUANS TURISTIEST TOTTACHES VORCINION	٠,

	TKGATTCATC AATTTCAGCA CCTAAAGCTT TAAATCCTTT AATATGTTGA TCAATTGGAC	180
	GTGGCCCAAG TGGACATCCT CCCGGTAAAC CAATCACACA TTTTTTAAAT CTACCTAACA	240
5	TGGCACCCAT CATATAGTAT GAAGCACGTA ATGATTCAAC TTTATTATTT GGLAATGCAG	300
	CATTTTGLAT TTCAGTTGTA TCAACTTCTA AWTCCGTACC ATTTAGTGAW GCCTTAALAL	360
	TTAAALCLKC LAALAAACTC aCTAAAGTTT TAACATCAGA GATTTnGCGG TAACCCTTCT	420
10	AATTTCACAT GTCCTTGAGC TAATAATGTT GCAGGAA	457
	(2) INFORMATION FOR SEQ ID NO: 981:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 997 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 981:	
	ATTGCAGCAA CGCCCCCTGT AAAACTACGT ACTCTTACAT TTATGAAACC TGCTTCTTCA	60
25	AACATGCGCT TCAACTCTTC TTTTCCAGGA AAATTAAACG TAGATTGCTG TAACCATTCA	120
	TATTCTTCTT TTGATTTTGC AAATAATTTT CCAAAAATAG GCATAACAAA TTTAAAGTAT	180
20	AGTGCATACA TTTGTTTAAA GACTGGCAAA GTTGGTTGGC TCGTTTCAAG ACATACCACC	240
30	ATACCACCTG GTTTAAGTAC TCTATTCATT TYTTTTAACG CGACTAAATA GTCTGGCACA	300
	TTTCTTAATC CAAACCCAAT TGTTACATAA TCAAAAGAAT TGTCTTCAAA CGGCAATTCC	360
35	ATTGCATCAC CATGAACAAG TTTAACATTT TCCATTGAAG CAGTTTTTTC TTTTCCTACT	420
	TCTAACATAT TCTCACTAAA GTCAATACCA GTAACTTCAC CTGTTGGTCC TACAGCTTTG	480
	CTTAATGCGA TTGTCCAATC ACCAGTACCA CAACAAACAT CTAATGCTTT CGTCCCTTTT	540
40	CTAACACCCA TGTCTTTCAT GACGCGTTTT CTCCATACTT TATGCTGCTC AAAACTAATA	600
	ATATTATTTA ATCTATCATA TTTTTTTGAA ATATTTTGAA AAACGCGATG TACTTGCTCT	660
	TTATTTGCTT TATTGTCAGC CATGCTTAAT TACCTCTACT TTTTAAATAA CTTTTTTGGA	720
45	TATCGTGTAA GTAATGCTTT ACTTCACTTT GATTATATTT CTTGAAGTAT GATGGATAGT	780
	AATCAGACAT ATCTTCAAAT AAATAATTAT ATATTTCCGA CTCATCAATA TTGATACCGA	840
50	AATGAGATAA CGTAALATAT GGGAAAAGTG LTTCAATTTT TACTATTGCT TGAGAAATTT	900

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CATAATCATT TAAAGCTTGA TGATGTAATG AAGATTTCAA TTCATTAATT TCAACAATTG

CTTTACTAAT TTCATTTTGA AATGATAAAT CATTGAT

960

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1118 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 982:

v	CATTCCCTTT	ATCGGnACAA	TTATTTTAAA	TAATTGGTTA	ATAAGTTTTT	CTATTAATTG	60
	CTGTTTTACT	TTCTAGAGCA	ACAATAAATG	TTTTCAGTTT	AAAATAATTA	AGATTGTCAT	120
5	TTACTAATTT	GCTTTTTCCA	TTCTTTAACC	ATAAATCAAC	TTGTAATTGC	CACTCAATAG	180
	GATGATTTTT	AATATAAATT	TGCTCTGGAA	AAATATAACC	ATAATTGTGC	ACTACTTCTT	240
	GATCAGTTAA	CTGTAATTGA	TACATTGCAC	TTAAAGTGGG	TTCTAAAACA	GAATTTTGCC	300
20	AGCGACAATA	TTTGATATAT	TGATTAATTG	CGAACTTTGA	TAATTTATAA	ACAGCATGAT	360
	AATCACAAGG	CGCCTCATTA	AACAACTCAC	TAATTTTGGC	ATTTCTTTTT	TCAGCGACAT	420
	ATTTGTGCCC	GCCTAAATAT	TGTATTTGTT	GAAACATCAT	TATTTGTTTT	TTCTCTAAAT	480
25	TGAACGTATG	AAGTTTTCGA	GTGAATGGAT	TAATAAACAT	ACTTTGAAAA	TGATTGAACT	540
	TCACTTTATT	ATGACAATAA	TCAACATCAT	TTAmTAACCA	ACTTACTTTA	TATCCCATTT	600
30	TCTTKAAACC	TTCCGTTCGT	TGAAGAATCT	GTTTATAAGG	AATTGGCGAA	TACTGTAGCT	660
	CAATAACATA	TTTATTATTA	ATCAAAATAT	CCGGAATTTG	TTTTATTTCT	TTTAAAAATG	720
	GCTCTATCTC	TACTTTACAT	CCTTGTTGCT	GTATCATCTG	TGCTAAAATC	AATTTACTTT	780
35	TATAATGTTT	AATCGTTTCA	TTATTAAAAC	ATTTTTGTTC	CGCTAAATGT	TTATGTGCAA	840
•	AATGACTAAT	TACTTTGAGC	CCACGCTTTA	AAATAACTTG	CTTGCCACAC	ACCGGACAAA	900
	AATATTGTGT	CTTTCTCAAT	GCAGTAGTTG	CTAATACGCG	TICCITITCI	TCATTTAAAG	960
10	CTACTAACAT	ATCTTCACCT	CAAAATATTA	CACGTAAGTT	TAACTACTAT	TACTTTTTCA	1020
	GCTTTGGAAA	TCCATTAAAA	AAAAGGGACC	CCCAAAGGAG	GCCTCCTTTC	ATANGTGCGG	1080
	TGGCCTAATT	AAATAATCCG	TTAATTCCAG	GTGGnCnC			1118

(2) INFORMATION FOR SEQ ID NO: 983:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

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	CATCCCCTGT TAAAAATTGn TATTTGTGTA TTGATGCTTC TCAGnCATTA TTACGAGTCC	60
	ATATTCATTG CTTCAGTGAA ATATCAGTAG CAATAACATT TAAATCCGGC TTTTCACATT	120
5	TCAAGGTAAT TGCAGTACAC CACTACCCGT TTCCGATATC TACGGATTGT TGCATCATCT	180
	TCTAACTGTT GGTAAGAAAT GCAACCATTA CTGCTTCAGT TTCAGGTCTG GTATCAAACA	240
_	ATTTGAGTTT ACATCAAACG GTCTACCTT	269
10	(2) INFORMATION FOR SEQ ID NO: 984:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 298 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 984:	
	AACCCAAGTG GAANNGGTTT TGGTGGAAAA ATTTTAGGTC CTTTATCTGT CGTGCGAATC	60
	ATTGTATTT TTAAACTTTC CGCATAATCT TGATGGTCGA TTAACTTTTC GCGATAACAA	120
25	TATTCAATCA CTTCAGAAAT CGCTTGCTCT GATATCTCTT CTTTTTGTAA ATATTGTATA	180
	ACTTCTTTT CAGTTCTCTT TTTATATGAT AAATATTGGA TTGCTTTATT TAAACCTATG	240
30	CGATAATGAT CATACTTTTG AATCTCTGCC ATGTCAGCAG CnTCAAGTTG TnGCCCTT	298
30	(2) INFORMATION FOR SEQ ID NO: 985:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 431 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 985:	
	CCATGCGATT CCACCTATTA ATAGTAAGAC AATAATAATA GGAATTATAA TTTTTAACTT	60
45	TTTAGACATT TTGCTTCCTC CCAATTATTT ATGAGTTAAT CATATCAGAA CAATACATTT	120
	TATTAAATGG TTTATTTTAA ATTTTGTTTA AATTAATAGA ATTTTAGTTA TAATAATGTT	180
	TAATAAGTTA TTGGrAATCY AATAAACTAC mAAAAATAGT TTGATTACAT AATGATTCLT	240
50	GAAAAATGKT GGKTAACYTA ATAATATGCA TTTTTTKGGC GArGARGATT LATTLAACYT	300
	ATAAAAATAT KGAAGTAAGA TEGGGGAGAT EATGAATTEA TGGTATEGAA AGTCGATGAT	360
	TTTGTAAAGA ATATAAAAAG ACCATACTTG ACTGTATTGG GAGTATTTGT AGTTGCAGTT	420
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(2) INFORMATION FOR SEQ ID NO: 986:

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5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 986:	
	AAGGTTAGGN TGGAGTACCC AAAGTAGGTT TTAAAGGTTG GAAATACNAG GAGGATGAAT	60
	AACATGAATC AGTCAGTCAA ATTACTTAAA CATTTAACAG ATGTAAACGG CATTGCTGGT	120
15	TATGAAATGC AAGTTAAAGA AGCAATGCGT AACTATATAG AGCCTGTCAG TGATCAAATT	180
	ATTGAAGATA ACTTGGTGGC ATTTTTGGAA AGAAAAATGC TGAGAATGGT CAATACTCAT	240
		300
20	TATGATTTCT GGTCTATGGA TGAAGTGGTT ATGGTAACAA GATGTAAACT GTTATTCATT	
	ACGCGTGGTG TGTGATCAGC nGCACTCAA	329
	(2) INFORMATION FOR SEQ ID NO: 987:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 545 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 987:	
35	CATATTATTT nTATATGAGT TTACCAGTGT CAAAAAAACA ATTGCTTAAT GCCAACTATA	60
	TTACATGCAT TGTTTTAACA TTAATTGGAA CGCTTGTTAT TAGTTTATAT GCTTATGAAG	120
	CAGATGTGAT TGAACCAAAT TCAATCTATT TTTCAACTGC ATATGCATTT GTCATATCTA	180
40	ACTTCTTGTC TATACCAATT GCATTTAGTC AATTTACAGA ATTGCGTAGA GTCAAAGTGC	240
	CATATGGTAT ATACGTGTTT ACTATTATCA TTTTAGTTCC ATTTTTATTT TCAATTGCAA	300
	TAGTATTGGT GAATTATTTT GTTCTAAGTC AATCATCATT CCCAGATTTA TATTCATATA	360
45	TTTTAAATAT TGGTTTTCTA ATTATAAGCA TTGTTATACT TATTGTTAAT TATTTTAAAC	420
	AGCTCAATAA AATAAATACT AGAAAATTTA AAGGAGGCAG TCGATGAAAT TAGAACATAT	480
	TACAAAAAA TACGGCTCAA ATGTCGTlTT AAATGATATI GATTTTGACT TTGGCGANAG	540
50	TAGAA	545
	(2) INFORMATION FOR SEQ ID NO: 988:	

5	(A) LENGTH: 607 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 988:	
10	ACCTAGCATG ACATAATCAA ATATATCAAA AACACCTTTC TGAACTGATT CAACCGTTCC	60
r.	AATAGTTAAT GGTCTTTCAG AATCAGATGT CTTTCCACCT TGAACAGTCA GATGACTAAT	120
•	TAAAATATTG ACGGCATCTT CATCAATTTC CGGTGCTATT GTTTCAATAC AGCGCGTAAT	180
15	TCCCTGTTGA TGTGTTCAA TGGTGTCATC TTCAAAGTAG TGTTTCATTT CGCTCACAGT	240
	AGCATAAGGG AGTGTATAAA AATTAACCCC ATTTATCTCT ATTGGTGAAT TAATCGATGT	300
	AAAATCTGTT CTTATAAATA ACTGATTATG TTCAAACCAA CTCGCCCCAT AGTTTAACCT	360
20	CTCTTTACCA TCGTGATTTC CACTAATAAT AATTATTGGT ATACGCAGTT CTAAATTTAA	420
	CTTTCCAATC GCTTGTTCTA ATAACATGAT TGCATCTTTA CTTGGATATG TTGTGTCATA	480
25	TAAACTCCAG CTATCACAAT GrTATCAGGT TCTTCTTT TCATTTTTTC TACGAACATA	540
	TCTAAAATAT ACGCTTGATC TTCTAAAAGC TGTTTGCCAT CTAATATTTT CCCTAAGTGC	600
	CAGTCTG	607
30	(2) INFORMATION FOR SEQ ID NO: 989:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 722 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 989:	
40	ATCGCGTTAA GCAACAATTA CAACAATCAT CATATAAGCT AACGCCACAA CGCGAACTAC	60
	TGTTAGAGTT CTAATTGAAA ATGAAAAAGA TCATCTAAGT GCTGAAGACG TATATCTGAA	120
45	AGTAAAAGAT AAAGCGCCTG AAATTGGCTT GGCGACAGTA TACAGAACGT TAGAGTTGTT	180
43	AGCTGAACTA AAAGTTGTCG ACAAAATTAA CTTTGGTGAT GGCGTCGCTC GTTTTGATTT	240
	AAGAAAAGAA GGCGCAAAAC ATTTCCACCA TCATTTAGTA TGTATGGAAT GTGGTCGTGT	300
50	AGATGAAATC GATGAAGATT TGTTACCAGA AGTTGAAAAT CGAGTTGAAA ATGAGTTCAA	360
	TTTTAAAATT TTAGATCATC GTTTAACTTT CCATGGTGTG TGTGAAACGT GCCAAGCTAA	420
	AGGTAAAGGA TAGTAAATTG CGTAGGTTAA ATTAACCTTC GCTTTTTTTA GAGGTGTGGT	480
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	TAACACAATT GGTGCTTATA GACGTGATTT GAAAAAGTAT CAAGATTATA TGACTGAACA	600
	TCATATCTCG CATATTGATT TTATAGATCG ACAATTAATT CAAGAGTGTn TGGGGCATTT	660
5	AATAGACCAA GGGCAATCTG CTAAATCTAT TGCGCGATTT ATTTCAACAA TCCGTAGTTT	720
	TC	722
10	(2) INFORMATION FOR SEQ ID NO: 990:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 990:	
20	ATCCAAAAA TACGAAAGCG CTTTCTATAT TGGTATGCAA GTATTTCAAA AAGAATAAAT	60
	TTAATTTTCC TACTTTTCTA AACATTTATC TTTATGTATA ATGTTTTCAA GTAACTAAAT	120
	TATAAATTAA ATAAAGGGAG TGTTTATCAT GCTTACAATG GGGACAGCAT TAAGTCAACA	180
25	AGTAGATGCC AATTGGCAAA CTTATATTAT GATTGCCGTC TACTTCTTGG GTNATGACTC	240
	CAACTTATTG ATAGTGTTnT TATGTTTCAG ATAATGCCCG ATGACTTTGT CATGCCAGCT	300
	CCACCGATTT TGAGnAACGA CAGCGACTTC CGTCCCCAGC CGTGCCAGGT GCTGCCTCCA	360
30	GTATTC	366
	(2) INFORMATION FOR SEQ ID NO: 991:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 991:	
	TGACTACAGT AACATTACCT GTAAATAATG ATTGAATGGC TTCATTTTCA TCATGAATAC	60
45	CTGTAATAAA TTCTAATTCT TCATCTGAAA CTTTTACAAT ATGCGCCAAT GGCAAAAAGG	120
	TATGAATAGT TTGTCTTAAA TCTTCAGCGT TATCCCATAA TGGCAATCTT ACATTAGGAT.	180
50	CAAATACGAC AGTACCATTT GCATTTAATG TTTTGGTAAT CAATTGATAA TGTGCATCTC	240
50	TCATCGGACT ATCGACCAAA TCAACAGAAC AAAAATGTAC TACATCATTT TCATTCACAT	300
	Cartateatt cacaaaactk GGkTCaAata aCATATCn	338

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 992:	
10	AGTTCATCGT ATTCTTAATA CCTATATGCT ATCGTTCACA AACTTTTGTT CTTTTCTTCC	6
	AACATACCGC CTATAATGCT CAAAAAGAAA TCAGCAGTGG AACCACTACG TTCCCTACCG	120
15	CTTTATCATT TTCAGGCTTA AATATTTTTA AAATTTTGTG AGGAATCCGC TTAAAAAAAC	180
	TCATATCTTC AAAAAAAATG ACAAAATTTA AATTTTTGAA TAACATCATT TTTTAGTAAA	240
	TGTTATAATT TCTTTATAAT ACAAATATCG AAAGAAGGCG ACTGACTTTG AAAAAATTAT	300
20	GTTCATTAAT TGTAGGTAGC ATTAGTTTGT ATCCTTGCCA TTATCAGCTT GTGGnAAAGA	360
	ACNAACCNAA A	37:
25 30	(2) INFORMATION FOR SEQ ID NO: 993: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 530 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 993:	
35	ATAATGATTT ATCAATCGAT GTTAGATGCG GTTCAATTAT ATCCTAAGTC TATCGTGGTT	6
	GATTATACTG TGGATGGACA ATACAAAAAT GATTGTCACT ATTTCGGTCA ATCATCGATC	12
	AACATTGCCG ATTGGGCTCA AAACAATAAT TATTATCCTA ACCTGATATA TGCGATTCAA	18
40 -	CAGACTCTTG ATTTAATACA TTATTACTCT GTAGAAACGA TTTTCGATTT AGCTTTATTG	24
	ACACTTCTGA AAGGTGATTT ATCAATCGAT GGTCATGTCG TTTTTGATTT TAAAGCCCCT	30
	ATAGCAACAA GTGCTTCAAT ATGGGAAACT ATTAAAACTA TTGAAGATTT TGATATGATG	36
45	TCCAGTTTTL TTGALAAALG GCTTATATLG ATCATCATCC TATACCTTTT CGCAACCTTT	42
	TTATCGAGGA TTCAGAACAA CTTAATTCGC CAGATAATTG GTTGTATTCT ACCAAGTTTA	48
50	TGCTACCTAA ATGGGnTATA TAAAATAAGC AAAGCAACGT GCTGATAACA	53
	(2) INFORMATION FOR SEQ ID NO: 994:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 551 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 994:	
	TATTGGATTn TTnCCACCAA AGGCAACGGT TCCTTTTCTA ATTCTAATAA TCAAATCCCC	60
10	ATTAATATCA ATCCCACTCA AATTCTTTCA CATCATTGAG TATAAAATAA TATGGTGATA	120
	TACGTTGAAG TTGATTnTCT TATTTAAGTA TACTCCAACA GTATTTTATA AAATTATTTA	180
	GTCATCATCT TCAGTGTTTA ATTCAAAAAT ATAGAATCTA CTGTATTGCA TAATAAATTG	240
15	AAATGCCACA AATTGTGTAC AAGCAATAAT AATGATACTT ACCATTATGA CAAACTTGGA	300
	TTCTACGACA TTGGGCACCA ATATATATTC GATAATTCTT TCAATATATA TAAATGCGCT	360
	CAACGCGGTT AATAATAAAC CGAAATGTGT TTTAGTTTTA CCACCCCAAC GTTTTGTYAC	420
20	TTTAGGTAAT TTTAATAACG TGAACATTCC GCCAATTACT AATAACAAAT AACTAATTAT	480
	GATTGAAATC GTACCCATCA ACCAATAATT GAATAGGTCA TAATGATTTT GTACAGCAAC	540
25	AAAATAATAA A	551
	(2) INFORMATION FOR SEQ ID NO: 995:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 729 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 995:	
	ATTCGCCACC ATTAGGTAGT GGAACACGAA CTTCATCATC TAAACCTTTA CCAATTAACG	60
	CTTTAGCCAT TGGTGATTCA TTTGAAATCT TACCATTAAA TGCATCTGAT TCAGCTGAAC	120
40	CAACGATTTG ATAACTTTCC TCTTCATCAC CTGGTAATTC TACAAACGTT ACTGTTTTAC	180
	CAATTTAAC AACGTTGTTA TCTCCAGTAT CTTCAATGAT TAATGCATTT CTTAACATAT	240
45	GCTCAATTCT TTGAATATCT TGTTCGATGA ATCCTTGTTC ATCTTTTGCT GCATCATACT	300
40	CAGAGTTCTC TGATAAGTCA CCAAATGAAC GTGCAACTTT AATTTTCTCT ACAACTTCAG	360
.•	GACGCTTAAC TGTTTTTAAT TCTTCAAGTT CACGCTCTAA TTTTTCAAAA CCTTCTTGAG	420
50	TCATTGGATA TTGCTTTTGA TTTTCCATAT TGTCATCTTC CTTTACTGAA TTATACTATT	480

600

CACCTTCAGG AATAATTATA TCAGCATATT TCTTAGTCGG TTCAATAAAT TGGTCATGCA

· 55

	TTAGTATCTC GTGTTGAAAC GGCGTAATAT nCTCAAGTCT GGCATCTGTA TCAACATATA	720
_	TnTTnAACA	729
5	(2) INFORMATION FOR SEQ ID NO: 996:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 996:	
	GACAAATATA CTGCTTCTAC TCAAATATTA GTGAACATGA AAAAGTCCTC AAGTGATTTA	60
	GCTTTCCCAA AATGTTCAAA GTAGTTTGCA GTCTGTTAAT ACATATACGG ANATTATCAA	120
20	AAGTCCTAGA TTCTAGATAA AGTATCTAGA GAATTGATGG TCAGTATTCA ACAGCTGAGT	180
	GAAATCATTT TAAAAGTAAC CATCCAACCA ACTCTCAAAT TATTACTGTA CAGTTACACT	. 240
	GGGATAATCT GATCTGACAA ATGTATAAAT ACTAAGTTTT GCCAGCAGCT AAATAGAGGT	300
25	GTATGTACGA CTTCCAnCTG TAGnG	325
	(2) INFORMATION FOR SEQ ID NO: 997:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 997:	
	CTTCAGTTGT CGGCAAATCT TCTATATTGG AAATACCAMA TACATTTAAA AATAAATCAG	60
40	TAGTAATTAA CTGTTGGCTA CGCTGTTCAT TAACCACTTT AGCCTCAACT AGTCCTTTGG	120
	CAATCAATGT CTTAACTGCA CCATCTGAAT TGALACTACG AATTAATTCA ATATCACTTC	180
	TTGATAATGG CTGGTTATAA GCAATAATTG GATAGTACTT CCATTGCTGC TTGTGALAAT	240
45	TTCATTTGTG aCTTTTGTTC AATTGAATTG T	271
	(2) INFORMATION FOR SEQ ID NO: 998:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 498 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 998:	
	TITATGTGCT AATTTGTAAT TGAGATTCAT AATGGTATTT AAATCATTAT GGTGCGGGAG	60
5	TTATGGTATT GCCATAATAT GAGAGTGCAT CCACTTCTAT AAGTAATGCA TATTGCGAGT	120
	GCAGGAATGA ATGAGTGCTT GATTAAAATC CTTATGGGTG GTTGACATAA TTAAAAGAAA	180
	CCACATTTAA AATTTCTTAA TCACAAGCGG TTAACTAGGT ATAGTTTAGT TTTGAGTAAA	240
10	TCTTTTTAAA GGTGTACTTG TGCATTTTAC TTAATTAAAG ACATAAGACA TTTAATCGGC	300
	CTAAAATAAA TAAAAAACTA CCTGTTTAGG TAGTTTTTTT AATGTAATAG ATTAAAACAC	. 360
15	TAGTTCATTT CTTATTAAAG ATGGATAGTT ATTTTATAGA TAAATTTGTC CTTTAGTGTA	420
	GCGGTAATTT TTAGGACTTT TTGGTGGNAA AAATGTTCTT AATAAAAGTA ATAGTCCTAC	480
	TTTACCGCCA AAGCCATA	498
20	(2) INFORMATION FOR SEQ ID NO: 999:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 568 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 999:	
30	TGAGCTGGTT GTTTATTATC ATCAGTTTTC TTCTGATTAT CATCTGATTT ATCTTGAGAT	60
	GCTTTGTCAT CCTTATCTTT CGACTCATCC TTTGATGCTT TATCATCATT CTCTTCTTTA	120
35	GCAGGACGTT GCTTTGTAGG TGCTTGTTGC TGAGGTGGCA CATATTGATA TTGATTCTGC	180
	TGTGGCAATT GCTGATATTG GTTTGCTTGT GAATCTAGCT CATTCTGCTC TTTTTCCTCT	240
	TGTTGCTTTT TCTTTCTCTC TTTTTCTGCA TTTTCTTTTT GACGCTTTTC TTTTTGTTCC	300
40	TGCTTTTGTT CGTTCAACAT ACGTTCTTTA GCTTTATTCG AATGATCTAC ATATGCAAAA	360
	ATTGCAAATA CTAATCCTCC GAGTAATAGC AATACCGTCG CAATGCTAAC TACTTTCGCT	420
	GTTGTACTCA TTTTCTTCTT ACTTCCATCT TCATTTTTAT TGTAGTCGTA ATTTTGATTC	480
45	GACATACTCT CCCTCACTTC AAACTAATTT AAATATAGAA ATTATCACGC AACCATTAAC	540
	ATTTTCACAA CTAATTTGCG ACChAGTA	568
50	(2) INFORMATION FOR SEQ ID NO: 1000:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 1441 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) 5	SEQUENCE DES	SCRIPTION: S	SEQ ID NO:	1000:		
5	AGTGTTTCTA	ATTGCAAAAT	TCCAAATACA	GTGTCGTTAT	TTACTTTTTT	CATGCTAAAC	60
	ATCTCCCAAT	TAATAATCAC	ATATTTAGCT	ACTATACAAG	TATTAACAAA	CATCCCAACA	120
	ATCCCAAAAC	TTGTATGTGC	TAACTTATGC	ATAAAACTAC	AAGTGTAAAT	AAACTTGCTT	180
10	TCTATTCAAT	TGTCAAAGTT	GAATAAAATT	AAATAAGTAT	AAAAACCAAT	AATCAATAGA	240
	GTTAATATTT	AGAAATAAGA	TAATAGTACA	TAAAACAAAT	CACTCTATTA	CATATTAATT	300
•	TTATAATTTA	TATACAAAGA	AAATATATCA	ATATTACCAT	TAAATTGCAA	CAATTCTACA	360
15	TATATTTCTT	CAAAAAAGAT	ACGCATTGAA	TTTTTATTAC	ATATAACTCT	CATGAAAATT	420
	GATTAAACTA	AATTAATTAG	TTAGCCTTAA	ATTTAACAAA	TTAAATCAAA	CCGAATGAGG	480
	CTAAATTGGT	TATTTTTCAA	GATATGATTT	GTATAAATCA	AAACATTTCT	TACAAATCAA	540
20	ATGTGTATAA	AATGTGATAT	ACATTTTCAA	CCTTAAAAAA	GTTCTAAAAA	AAGATGAGCA	600
	TCTACTGTCT	CATCTTTCAG	TTCTTTTTTA	CGGGTCTGTT	TTCTAATTTG	AGCACAATCT	660
25	TCGATTTCTT	TATCTAAATG	ACTACCAATT	AAATCTATTT	CTTCTATTGT	TAAATCGCTA	720
	TCTCCATCTT	CTTTTATCTC	TGGTATTATT	TTTTCTTCAA	CTAAGTCACG	ATATAGTGTT	780
	TTTGAATTCT	CGTTCAATTT	CGATTCGTGA	TTTTGAATAC	TTTCTTCCGC	ACCAATGTAT	840
30	ATCTATTGGC	ACTAGCTTCT	ACTTTTGTAC	CATCAATAAA	AATTGAATTA	TCATCAATAA	900
	GATTITGCTT	TAAACATTGA	CTATAGAACT	GAATAAATAA	AGATTCAATT	AACGCATCAG	960
	TATTAGGATT	CACTCTAAAA	CGATTAATAG	TTTTATAAGA	AAGTGTTTGA	TCTTGGGCTA	1020
35	ACCACATCAT	TCGAATACTG	TCATGAAGTA	ATTTCTCTAT	TCTACGACCA	GAAAATACAG	1080
	ATTGAGTATA	TGCATATAAG	ATGATTTTTA	ACATCATTTT	TGGaTGATAG	GATGTTGCAC	1140
	CACGATGATG	TCTGAATTCA	TCGAATTCGC	TATCAGGTAT	CGTTTCAACA	ATTTCATTAA	1200
40	CATATCGCGA	AATATCATTT	TGAGGAATTC	TAACGAAGTT	TCTATTGGTA	GTGTAAGTTG	1260
	GGGTCATGTT	ATAATTTTTA	TACATAAGGC	ACCTCTTTAA	TTTAGTTTAG	TAGTATTTAT	1320
	TAAATTATAC	GaAGGGACCC	AACACAGAAA	ATTCATTTTA	TTGAATTTTA	CATTTATGTG	1380
45	CAAGTTGGGG	AAAAATGTCT	TATTTTTCA	AAGTATTTAA	AAGTAAAATT	ACATGTTAAT	1440

(2) INFORMATION FOR SEQ ID NO: 1001:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 587 base pairs

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	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
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3	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1001:	
	TAATAATATC TGTCATATTA AGTCTCCCTC ATTAGAACTC ATTATAAATG AAGTTATTGT	60
10	GTGTGTCGCC ACTGCCATAA ATTAAATATA AAGTAATAAA TATTGCCAAA TACAATAGTG	120
	TTAATAAATA TGGTTTGAAT GCTTCAACAT ATTTATTAGG TGGCTGTTTA CTTTTAGATT	180
	TCATATTGCA CCTCTTAAAG TTCTTAGTAA AAACGCCTTT ATAAAGACCG TTCAATATAA	240
15	AATACGITIT AAAATTTGTT TTTTACAATT CATTATATCG ATATTCATAA TGAAATTCAA	300
	TTTTAATTTT ATAGATTCAA CATAGTAATT GGTTGTCATC ACTCAAKTAT TGTAAATGAT	360
	ACACTITGIT GAGRACATCA TICATITIAA AGGITATITA AACAATAAAC AATTACAGIC	420
20	TATATAACAA TTTTGTTATA TACGTCAAAA TCAAATAAAC TCATCACATT AATATGACGA	480
	GTTTATAATG TTATTGAATT ATCATCAGCG CAAATATATA CATTCGCAAG TCAAGCATAA	540
	CATATTTAAC AATTGCTTTG CTTGGTTTTA CCAATGGATT AAAAACC	587
25	(2) INFORMATION FOR SEQ ID NO: 1002:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 522 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1002:	
	CAATTGTGTC ATAATTTTGC TGATGATAAC TAATCGTTTT GGAGTAGCTA TTTGATGAAG	60
	TTCGTCCAAT ACCTTTGTT GAATCGAATT TACCACCTGA GCGTATATGA AAATGTACTG	120
40	TCTACTTTTG CAGTTGAAAT TTTATTTTTC GGCAATTGGT CTAATATTTC AGTTTTACGA	180
	TTTCTTTTTA CTTGAAAATC TACATGGTAC TCACTTGGAT ACTTTAACCA ATTTGAATTT	240
	TTTTCTTCTT TATGAGATTC AAACTTTAAA TTTGAATGAA TTGAGCCTTG TTTTTTAACA	300
45	AGTAATACAT TCTTGTCATA AGTTGGATCA TCGATAAAGT CGAATTGTAA ATTTTGGAGT	360
	ATATTEGTWT TCTCATCATA TACTGTTTCA GTTCGTTTTG TGATTTTACC GTTTTTCCCA	420
	ATATCATCCG GTGCTGTTGA ATTTTTATCT TTATTAGTAA CATTACGTTG CTTTTGTGAn	480
50	CTTATCAACA TGTCTTCTAT TTGGCTGANG CTTATGGNGA TT	522

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(2) INFORMATION FOR SEQ ID NO: 1003:

5	(A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1003:	
10	TCTTTGTTTG AGACATAATG TCATGTAAAG TTTTCACAAT GCGTTCTTCA ACTTGTTGCC	60
	TTGCCTCTCC TTTGAAAGGA ACAATTCGAT CTCCGAATAA GTCCTCAGGC TTGTATAGAT	120
	TATCAAATAG ATAGACTGAC TCACCTTCAA ATATTCCAAA ATGCCATTCC TTCAGTCCCT	180
15	TAAAACGTTG ATACGATTGG WTAGGTGCAA CATTTTCAAG TGTGTCACTT GCGCGTTCTT	240
	GCGTTGATGA TGCATATAAA TCGAAGTTTA TCCCCTTAGT TTCATAATAA CTACGTGCCT	300
	TINGAGCTIG AGCAATICCA AGT	323
20	(2) INFORMATION FOR SEQ ID NO: 1004:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1004:	
	TTCTAACTTG ACGTGACTGG GCATTTCTGT GNAAATnTTC TGACATTCTT TTTAATATCC	60
	GCAACGCAAT TGCTTCAGTT AAAGATTGNA ACTTGCAACA TTATTTGGTA CGAAAAAGTC	120
35	AGTTTTAATG TCGATATAAG ATTTATTTTT TTTGTTATAT AGTTTCGCAA CTACATTTGG	180
	TTGTCTTACT TGATCATATT TTGCAACCGT ATCGAATGCC GTCTTTTCAA ACAGCTTTAC	240
	GAGATACGTA AACCATGACC CATCCATCGA AGTCCTTGGT AAAAACCCAG GGTTTCCGAA	300
40	GCCGTAGGGT TTGAAAGATA	320
	(2) INFORMATION FOR SEQ ID NO: 1005:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1005:	
	NATTAATGCT AGCCAAAACA GANTTGCAAN ATGTAAAGAC ATGTGAAACC CTCCTTATAT	60

	CGATATTTAT AAAAAATAAT ATTTCACTTA ACCAGTTTTT AGTTATCATT GCAATGGTAA	180
	AGGATACGAT GAGTATCACA CCACAAATGA TAATACCAGG CAGGAGCCAA CATAAATCAT	240
5	CTAAATCTTT ATTATATGTG ATTAAAATAT TAAAGATAAC AAAAGTGGTA GTAATAACTA	300
• • •	TATTG	305
. •	(2) INFORMATION FOR SEQ ID NO: 1006:	
10 15 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1006:	
20	TTCAAGATAT CAGTATAAAT AAAAACTTAA TATGCTCATT ATAGACAGCT ATAACTATAT	60
	TTTCTCGTCC CACTCTATAG AAATCAATTT CATTTATTAC CATTTTCTCT ATTTAAAAAC	120
	ATATTTTTGG TATTAACAAT TAAAAGTGGG TATATATATT TAATGAACCA ATTTTTTAGG	180
25	AAAGTAGGGC TAAACCTATG GAAAATAAAT TATACCACAT GGTGTCCTCT TTTACCATGA	240
	ACACAGTGAA TTAAAAAATA TTAANCAAGG TATTGGGGAA GTANCACCAG CATTAGGTCC	300
	AATTGGTAGC CACCTTCCAA TCCATTGGGG GnAA	334
3 0 .	(2) INFORMATION FOR SEQ ID NO: 1007:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 565 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1007:	
40	AGAAAATTTG TTATATTAGA AGCGAATAAT TTTAAAACAT ATTATGAAAT GTAAGAAGAA	60
	ATATTATGAA ACTAGGAAAA GTAGATTGTT GAAAATTCCA TACAATAGGn GANGTAAAGT	120
45	GAATAAATTC TGGTATTACT AAAGCTATTG ATTGTCCTAA TTGTAATAAA AAGTTGGATA	180
	GTGTAGTTGA GGGGAGAAAA ACTAAAATGC AAAAATATAT TCTCAATGGA TCATTATAAA	240
	TACCAATTAG ATTAAAGTAT TGCGAACATT TACAATTAGA AATCAGTATT AATCTGCCAT	300
50	AGATAATTGT ATTAATGTAA AAMATAAAAT AGAATGAGAA TATACGGAAA TTTTTTATAC	360
	ATTENDANCE ANTECTOTAL ANCICCOLAG ACTACACTOR AND ACTACACTOR AND ACTACACTOR ACT	400

	AATGATTGAA CGCTATTCTA GAGAAGAAAT GTCTAATATT TGGACTGATC AAAATCGCTA	540
	TGAAGCCATG GTTAGAAGTG GAAAT	5 65
5	(2) INFORMATION FOR SEQ ID NO: 1008:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1008:	
15	CAACATTAGC GTCTAAACAA ATCTTTGACT AAACGTTCAC TTGAGCGACC ATCTTGATAT	60
	TTAAAATGTT TATCTAAGAA TGGCACAACT TTTTCAACCT CATAATCTTC ATTGTCCAAA	120
20	GCATCCATTA ATGCATCAAA GGACTGTACA ATTTTACCTG GAACAAATGA TTCAAATGGT	180
	TCATAGAAAT CACGCGTCGT AATGTAATCT TCTAAGTCAA ATGCATAGAA AATCATCGGC	240
	TTTTTAAATA CTGCATATTC ATATATTAAA GATGAATAAT CACTAATCAA CAAGTCTGTA	300
25	ACAAAGAGAA TATCGTTAAC TTCACGATGA TCTGACACAT CGATAAAGTA TYGTsTATGT	360
	TCACGTGAAA TAYYAAGTCY ATTETTTACG AACGGATGCA	400
	(2) INFORMATION FOR SEQ ID NO: 1009:	•
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 454 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1009:	
	TATTGTAAAA ACTGTGGTTC TTACAATGGC GAAGAAGTAG CAGCTAAATA ATTTTAGTTA	60
40	CTCAATATAA AAAGTCCCGC TTAAAATGAT TGTTTTAAGT GGGACTTTTT ATATTGCGAA	120
	AAATAATTGG CGAACGAGGT AACTGGATAC CTCATCCGCC AATTAAAATT TGTTAATTTA	180
45	ATAATTAAAT ATAAAGACGA TTTATTAGTT TTTACGTTTT CTAGGTAATA CGAATGCAAC	240
	GATGCTACTT AAAGCTAATA ATGCCATTAA TGGTAATGTC ATATCTnTAT TTGATTCTTC	300
	ACCAGTITGT GGTAATGATT TTGCTTTATT TTCTTGTGTA TTTGTATTGT TTTGGCTTTG	360
50	GAGTGTGTCC ATCATTTGTG TTTTTAATGT TTGCTTnTnG TAATGGAGCA CTAATCTTTT	420
	GCCTCGCTAG AACCTGCCGG AGGTTTGGAA CCAC	454

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1010:	
10	GGTACAACAA CTTTAGACAA TGAAATATTA AAAGATACGG ATGATAAAAA GTCGAGTAAA	60
	ACTITIGITG GCGGAACAAA AGTIGATGAC CAACATGCTA GTATCGGAAT GGATTITGAA	120
45	AATCAGGACA AAACTTTAAC TGCCAAAAAA TCATATTTCA TATTAAACGA TAAAATTGTC	180
15	TTCTTAGGAA CTGGCATTAA AAGTACTGAT TCATCAAAGG ATCCCAGTTA CCAACCGATG	240
	AAAATCCGCA AGCCGATGGG GAATACGGTA TTTTCCGGCC GTTAACCAAC CACCCATTCC	300
20	GGTTATCCGG GAAACCATTC CATCCTTTTA GGAGNCNCCG GTNCCNAAAA GGACCTCGGG	360
	TATCCTTTTT TTAACCAACC CGAAATTACT GGTAAAAAAG	400
25	(2) INFORMATION FOR SEQ ID NO: 1011: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>30</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1011:	
	TTAGGTATTC GCAAAAATGA TCTTCAATAT ATAGCTATGG CCAAAAGATG GGCTAAAGCT	60
35	TATACAATTA CTGTAGCAGT GGGAGTTGTT ACAGGTACAA TTATAGGACT TCAATTATCA	120
	TGATTTGGCC TACATTTATG GAAATGGGTG GACACGTATT GCACTTCCCT TATTATGGGA	180
	ACATTGCGGT CTCTTGGAGC TATTTCTTAA GTATATATTA TATACTGGGA TCGTTTAAAA	240
40	TAATGGCACA TTCTTAATAG TATACCAGTA ATTATGGGGC CTTCTCAGCA TCTCATACTC	300
	AGGAATCATT ATGAATACGC CTGCAGGTTT GAGTGAAGAT GGAAGTGGCC ATGTCACCnT	360
45	AGAGCGTGTT ACCCACGTTA AGTCGTCATT nCGAATACAC (2) INFORMATION FOR SEQ ID NO: 1012:	400
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1012:	
	CTTTATGGGA TACACTACAA ATCGAGACTA TAAGGTTTTT TATTTTATTT	60
5	TATCAATAGT TTTATAATCG AGCTTCAAAA CTTTAGAAAA TAGTAGAAAT AGCATTCAAT	120
	ATAGTGCAAA AGTGCAAATT GATAACTTGA CACTTATCTC CTATAAACCG TACAATTAAT	180
	TTGTATGATT TATATATAAT TTCATAAAGT CATATTGAAT TTCATATAAA GAGCAAACCC	240
10	TAGAAAAnga GGTGTTGTGG AATTATTAAG CTCCTACTCA TTTGCGGGGT CATCTAGGGT	300
	GTGGAGGATG TGTGCCGAAT TGTGCTCAAA NATCCCAGCA GCAACGCGAG TTGAACAGCC	360
	TAAGACGCAA CAAAGGATCT GnnAAGGACC ATCAGGCACG	400
15	(2) INFORMATION FOR SEQ ID NO: 1013:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 353 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1013:	
	GTCGTTGCTG ATACCACGCC AGTATTGGTT TTAAATGATA AAAAAATCTG TGAGATTGCA	60
	TCATTGAGAC AAACATCGCT ATTTGAAATG GCCGAATATA TAGGGTTTAG CGAGCCACAG	120
30	AAATTAGTAC AATTATTTAT TAACCATGAT AGGAAGGTGA GACGCCAATG AATCAATATA	180
	ATACTATAGG TTTTCACCCG GGAAATAGTC GTATTCATCA ATTAAATGCG ACTGTTAAAC	240
	TTTTATnCTT ATTAGTTGTT CTATTCTGCA ATGGTnCTAT GCACAGGTAT TNATTTAATT	300
35	AGGCTCACAT TTATGGGCAA TTCTCAATGA TGAACAGTCG TTGTGTAATC TCG	353
	(2) INFORMATION FOR SEQ ID NO: 1014:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 627 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1014:	
	CAAAGCCTTC AACAAATAAT CCTTTATTAG TACTGATTGG TTGCACAACA TAAGTTACAC	60
50	CAGGTTCATC TTTAAATGTA ACTTCCTTAT AGAAGAGACC TTTTTTAGCA CTATACTCTG	120
	TTTTTCTGA TTTAATTTTA TCTTTTAGAT TTTTCTCTTC CAAGTAACTG TCAATTAGTT	180

	ATGAAATAAA TAATATAATG ATAACTTTAA TCGCGTTTTL TTTCTTCTTC ATTATGTAAC	300
	TCCTTTTTGC TTATCTATTC AGTATGAACG AATCAATTTA TTTAATAAAG AGTTTTTACC	360
5	AGATTGTAAC AAATTTTTTT ATTCTCAATA TTATTATAGA AATCGAATTA CATACACGAT	420
	GCTTTTAAAA AATTTAATAA CAAATTTTAT TTTACTATCT ATCAAAATAA TTGACTACTT	480
	TTAACAATTA AGGATGATAC AATTACATTT TTTTCAATTT AAAAAATCAG TCATATCAGT	540
10	AATTACCGAT GAAAATACTA AGATATCGAT ATATTTTGCA TTATTTAACA TTTAAATTC1	600
	ATTATAGACA ATTCAATAAT TGCGATG	627
	(2) INFORMATION FOR SEQ ID NO: 1015:	
15 20 -	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 462 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1015:	
	TAGTGTGACA TTAACACTGG AACAAAAGA AGCTGCAATT GCAGAAGTTA ATAAGCTTAA	60
25	ACAACAAGCA ATTGATCATG TTAACAATGC ACCTGATGTT CATTCAGTTG AAGAAATTCA	120
	ACAACAAGAA CAAGCGCATA TTGAACAATT TAATCCAGAA CAATTTACGA TTGAACAAGC	180
30	AAAATCAAAT GCAATTAAAT CGATTGAAGA TGCAATTCAA CATATGATTG ATGAAATCAA	240
	AGCTCGTACT GATCTAACAG ATAAAGAGAA GCAAGAAGCT ATTGCTAAGT TAAATCAATT	300
	AAAAGAACAA GCAATTCAAG CGATTCAACG TGCGCAAAGC ATCGATGAAA TAAGTGAGCA	360
35	ATTGGAACAA TITAAAGCTC AAATGAAAGC AGCTAATCCA ACAGCAAAAG AACTAGCTAA	420
	ACGCAAGCAA GAAGCTATTA GTAGAATTAA AGACTTTTCA AA	462
	(2) INFORMATION FOR SEQ ID NO: 1016:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO. 1016:	. •
50	TGATTGGTCC CATCGACTCG TTATAACAAA TTGAAGGTAC AAAAGTATCT TGTGATTTAA	60
	TAAATTCAAG TAAATTCGTA CCTGGTTCTA CAAGGTAATT CTTTTCCATC AAGTGTAACC	120

	ATAAATTGCG CATATCCACC nAAAATAACG ATGCCCCACA CATCTTTCAG ATAGG	235
	(2) INFORMATION FOR SEQ ID NO: 1017:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 227 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	•
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1017:	
15	GTTGAAAACT ATAAGATCAn ATAAAGGTAA AACAGTGGTT TGTGTCATTA GTGGTGGTAA	60
	TAATGATATT AATCGAATGA AAGAAATTGA AGAACGTTCA TTACTATACG AGGAAATGAA	120
	GCATTACTTT ATCTTAAATT TCCCTCAACG TCCAGGTGCA TTGAGAGAAT TTGTAAATGA	180
20	CGTATTAGGA CCTCAAGACG ATATTACTAA ATTTGAATAC TTAAAAT	227
	(2) INFORMATION FOR SEQ ID NO: 1018:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 284 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
20		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1018:	
	GTCTTACTTG CACAAGGTAT TATTTCTATC TTACTCGTTG CTTTCGCAAT CATGCTATAT	60
35	ATCATTAATA TTTTAGATGC ATATCGTAAT GCTGAACGAT TTAATCGCAA TGAGGAAATA	120
	AAGGATCCGA AGCGCGTATG GTGGCACATG GGACAAGACG TTCCCATACT TACTAATCTC	180
	ACCAGGTACA THETTATTGA TATTGTAGTG TAATTCCATT ATATTATGTT GGAGTAGCAT	240
40	TACAATACAA TTATACACGC GCCTCGAGAC NACATAGATG GGTG	284
	(2) INFORMATION FOR SEQ ID NO: 1019:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 779 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1019:	
	CAATCATCAC ACATAAATGT TCGAATAGGA TTGTTTTTAA GTCGTTTAGA CTCAGTTGTG	60

	CACCTCAATA	TGAGTTACAT	GGTTGATTCG	ATATGAATAA	. CCATCTTCTT	GATTGTAAAT	180
	AAAACTATCT	ACACCATTAT	CGCTGTAAAG	TCGTTTACCG	TCTTTTGCAA	ATTGGAAAAA	240
5	TAAATAGGGT	AATAGATCTA	TCGGTATATC	TAAATGATCA	TGCTCATTTG	ATAATCGAAT	300
	AGTAGTTGCA	GAGTCATGTG	GTTCGGAATG	TTTGAAAAAT	GGTGTCATAT	TAATGACAAA	360
	TGAACCTTCT	AACATGGCAC	GTTTTTTATA	TTTTATTTCT	GAATTTAAAG	TAGGCGGATT	420
10	AGTTTGTCCt	TCtAGGATAG	CaCGATTCCa	TTCaTGaTTA	TCTTCAAAGT	CGATTGGTTT	480
	TGAACCATCa	AATACACCTT	TTTCTAAATC	TTCGATGCTA	ACTTTTCTAT	CATCGAAAAT	540
15	CCAAGTCGTA	CTATCTAATG	TTATAGGAAA	CTTTACGGCT	CCTTTAATTT	GTATCATTTT	600
	CCCACTCCCT	ATCAATGTAT	ATAGCATTAT	TTTAACACAA	ATTGCTAACG	ACACATTTTA	660
	AATCTACTTG	CTTTTTAATA	TTTAGTAAGA	TAAACTTTTA	GTAAGACTTG	AGAATTTATA	720
20	TAGAGGGGGA	GCGTGTCATG	GCGAAACAAG	CAACAATGAA	AAATGCAGCT	TTGAAACAA	779
	(2) INFORMA	ATION FOR SE	O ID NO: 10	20:			

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 950 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1020:

TTAATGGTCC ATTAAGAATA ATGGCAGAAA ACCGTTTGCA TAAATCAAAC CTTGATTCAC 60 TAACTTAAGT AATACTCGCT TTTCnTAAAT CCTTTAGAAA GGAACTATnT ATCATGATTA 120 CTTCATTCAG ACATTCTGAA GATATAGATA AACATATTAT AAAAACACCA TTAGATCATA 180 CAGCGTCATG GATTAATGTA GTAGANCCAG ACCGAGAAGA AATTGAAAAT CTTATGGAAC 240 AATATAATAT ACCTGAAGAC TTTATACGTG ACCCTTTGGA CTCAGAAGAA AGTTCCCGTA 300 TTGAATATGA CGAAGATACT GGTTACTCAT TAATCATTAT TGATTTACCT ATCGTCAATT 360 CAACTAATCG TAGCGTTCTA TCTTTTGTAA CGATTCCATT AGGCATTATT ATTGGCAACG 420 GTATTATCGT AACAGTTTGT GACGCTGAAA ATGAATTTTT AGAAAATTTA CCTAAGCGTG 480 ATATTAATTT AAAATTTCAC AGCAGATTTG CATTAGAAAT TTTAACTACT ATTGCCGACC 540 ATTATAATUU TAACTTACGA TIACTIAATA AAAGTAGAAT TUUTATTGAG AAAGAACIAA 600 AAAATAACAT TACTAACAAA CAACTTTTCA AATTAATGGA AGTTGAAAAA AGTTTAGTAT 660 ACTITITAGC TGCCTLAAAA GGTAACGATA CAATTATTAA AAAGTTATTC CGTTTACCTG 720

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	AAGCCATCGA AACAACAGAA TTACATCAAC GTATCTTAGA AAGTATCACA ACATCATACG	840
	CTTCCTTATT ATCTAATGAT ATGAATACGA TTATGAAGAC ATTAACACTT TTCACGGTAC	900
5	TATTAACGTT ACCAAYACLC GTATTTAGTT TCTTCGGTAT GAATGTGTCG	950
	(2) INFORMATION FOR SEQ ID NO: 1021:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 528 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1021:	
	AATATATAAA ATGAATACAT TGTGAGGCAA TTATCAAATG AAATTTAATA AAGTAAAACT	60
20	AGTTATACAT GCGTGTGTAC TATTATTTAT CATTATTTCT ATAGCGTTAA TTTTTCATCG	120
	ATTACAGACG AAGACACATT CTATAGACCC AATACATAAG GAAACAAAAT TATCAGACAA	180
	TGAAAAATAT TTAGTGGATC GTAATAAGGA AAAGGTTGCG CCGTCTAAAC TAAAAGAGGT	240
25	ATATAATAGC AAGGATCCTA AATATAAGAA AATTGACAAG TATTTACAAA GTTCATTATT	300
	TAACGGTTCA GTAGCTATAT ATGAAAATGG CAAATTGAAA aTGAGTAAAG GTLATGGATA	360
	TCAAGATTTT GAAAAAGGTA TTAAAAACAC ACCGAATACG ATGTTTTLAA TNGGTTCAGC	420
30	TCAAAAATTT TCAACAGGGT TACTGTTAAA ACAGTTAGAA GAAGAACATA AAATAAATAT	480
	CAATGATCCA GTAAGTAAAT ACCTTCCATG GTTTAAAACA TCTAAGCC	528
	(2) INFORMATION FOR SEQ ID NO: 1022:	
35 40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 713 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
+∪		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1022:	
45	GCATTnCGGT TAAAGTAKGE TTCAGCTTCT CTCATTTTAG AAGTACCGAA AAETGGTTGG	60
	TTALCTGGAT TTAATrLCAC GATAAATATT GCTTACTTTG TTACTTTGTr AAATGTACCC	120
•	ATTACGAGTC TCAATGTTAT TCCAATAAAT ATCACTTGTT GGTGCATGGT TTGGATATGC	180
50	ACAATGATTT CTTGAAATTG TTTGAACGAT TTCTAATGGA TCACAGCCAA ATGTACTGTT	240
	TAATACTTCA GAGTCTCTGA ATAATGCACA AANTGAAATA CAAGTTGTCC AGTTTGGTAA	300

	AGIATOTIGO GIATAACAG COTOTATACG AACCATTITA AATTITGITI GAATTAAATC	420
	TGTAAAACTC TGTCTATCCA TTCTGTTATC TACCTTTCTG TTTGGGGAAT TTTATCCGGA	480
5	CACAAGAAAT TGCAATAATA CACATTTCTT GAAACACAGA TTACATCTTA ATATATTTTT	540
	AATAAAATGA AAAGAGTCAA TTTCACATTT GTATTAAATT TTGATCAAGT CAACAAGAGT	600
	TAAGTTTACT TTATAATGAA GCGAAAGTAA ATGAAGTAAA ATTTTATGCA TAATCACTAG	660
0	ATTTGATAAA ACTTACACTT TTATAATGAT ATCAAATTTA CAAAGGAAAA CTG	713
	(2) INFORMATION FOR SEQ ID NO: 1023:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 570 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1023:	
	AATAAAATAG AAATGATTAT GGGTACAATT ATCGCTATCA TATCCTTGTT ATTAATTATA	60
5	TTACAAGCAT TTAATATTAC TTGGGGCGTT ATACCAATTA CAAATTTTGG ACATCAATTT	120
	TTCTTTTCA TTGGTATTAT TTTAGTAATT GCCGGCATAT TTTwyAAGCG ACTEGAGTTT	180
0	TCGGGGATCG GGTTATTATT TTGTCAAAAA ACCGTCGATG CAATGATTCA TAATCCACAA	240
	TCAGCCCAGA TTTTTCATT AATTATATGG ATATTATTAG TAGTTCTAGT TATATATTTC	300
	ACAATTAGAT TATCTTCACG TACAAGATTA TAAATATGAT AAAACTATTC ACTTGATTAA	360
5	TTGTATTAAT TGAGATGAAT AGTTTTTTA TTGTTGGAAT AACTTTTGGT AATTTATAAA	420
	TAATTTAAAA AAATTGTTTA TAAAAGGAAG CGTATATAGA ATGAACGTTG GGTATATAGT	480
	TTATTGAGGG AGGTGTCACA ATGAATAAAG TCACAATTAA TCCTCAAATC CAATTAACTT	540
0	ATCAAATTGA AGGTAAAGGG GATCCTATAn	570
	(2) INFORMATION FOR SEQ ID NO: 1024:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
o	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1024:	
	CTTTGTTGTG CTTGAGCATT ATTAAAAAGA GTATTTAAAT TTAGTTGTTG GTTTGTAATA	60

	TCAGAATTAT TAACACTATA TTTCCCTTTA AATAATGGTG ATTCGrAATA ATGCTTATCT	. 180
	TTATCTGCAG CTAACTGGAA TTKCCCTAAT GCAGAGTCTG CGATTGTTGG TTCAAGATTA	240
5 ·	ATCATTGATT TCTCTTTTTT AGGATCATGT CCATATGACA tGTaATTTTC GATGCATTAA	300
	CAACAGATTT AKGAATGCCA AGCCCTTTAA CAATTTCATC TGATGCATCT GCGCTTAATn	360
	CTAATGAAGA TAAAAACGAL TALCTTTCAT CKKTTCTTGG AACTTCACTT CATTTTCAAA	420
10	ACGGTCATTA AAATAATCTT TATACATTTT TGCTGTTTGT TGTTCACTTT TTAGGTATGT	480
	ATTTTC	487
15	(2) INFORMATION FOR SEQ ID NO: 1025:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1025:	
25	ATATGTTATA AACAATTTTA CAGTTGTATC ATCTACTCGT TCTATTCTCA TATCATCTCA	60
	CTCCTTACAG TCGATGAATA GTATCCACAT TGTATTAAAG CATCAAACAA AATACAATTT	120
30	ATTTGTTTGA TTTCTTTCTC TAAAmTATTT TGGTAACTTA TAATAACATA TTCGTTGTAG	180
	CAAAACTATT TAAATGATTT ATACAGTTAA AGCATTAAAG CACTTTCTTA ATTTAATTTT	240
	ACCTTATCAT AGCAAATGTT TCATCCAAAA CACTCTAATA TAGAGCTATA TTAACAATTG	300
35	CACATTTGAT TTAAAAGATA CTAAGCAATT ATTGLAAAAT TAAAACCAAA AAAGCAACAC	360
	TATA	364
	(2) INFORMATION FOR SEQ ID NO: 1026:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1026:	٠
50	TGCCCCAGGG GAGTACNAAA AAAAAGNGGG GTGGGGAATT GGAAACCGGA ATTAGTGGTT	60
5 U	AAAGGGGTTT ATTGGATGTT GGGTCTAAAG TATTCCCAGA AATTTATCCA TCNATGATTG	120
	CTTTAGCCAA GTTTTTTCC AACCCATCTT TATGGAATTT AGTTATCTCA ATTACATTAA	180

	CTTATATAAA AATGGCACAA TTATTTCATG TACCAACAAG AACAATATTA ATACGTCATT	300
	TAACACCTAA AATTATACCG GCTATTATCG TTG	333
5	(2) INFORMATION FOR SEQ ID NO: 1027:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 450 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1027:	
	TGTTCCATTC GTTTTAATAA TGGTGATACT GTACCAGTAT CGAGTGCTAA TTCAGTTACG	60
	ACTITICTIGA CGTTTACAGG AGATTCATCC CATAAAATTG TTAAGACAAG AAATTGTGGG	120
20	TATGTTAGAT TGTACTTCTT AAAAACTTTG TTAGAGTAGT AGCGATTAAC TTGTCTTTGA	180
	GCATTGTACA AACTAAAGCA TAGCTGTTCT TTTAAATTAT GTTGATCAGA CATTAAAGTT	240
	CTCCTCCAGA CATACTATCC GTTTTTnTCT CTTTTCGGAT TGGTAATCAT TAAAAAGTTG	300
25	ATTGTTTATT AATTCACAAC TTTCTTTGAT TCAATGCCAT GCDAAAATTA AAGTATGTTT	360
	AAAGTTTAGA AGATATTTTT GATTAAATCA AGCAAAAAGA TAATTTAATA TATATGTGAT	420
	CATTTTAAA AATAACTGTn ATAGAAAAGA	450
30	(2) INFORMATION FOR SEQ ID NO: 1028:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 535 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1028:	
	TGCATCTATA CCTAGAACTT TAATTTCGGA TTTTATTGCG TCTGTAATAT CTTTAATACC	60
	ACTITCGATA GGGAAACTIT CGTCACCITC AACATATITA ATACCAAAGC CACCACCAAG	120
45	GTTTAATAAT TCAACTTGAA TGCCTTGctC TTTAAGCCAA CGTAAAmCAA TTTTAGCAGT	180
•	TTCAATAAAL GCTTCTGTAC CTTCAALCTG TGrACCAATA TGACAATGTA CACCTTTTAA	240
60	TITTAAGTGT TTAGATTGTT GGACTTTGTC AATTGCTTTT TTAGCTAAGC CATATTGAAT	300
50	TGATAATCCA AACTTACTAT CTTCTTGCCC AGTTTGAATA AATTCGTGTG TATGTGCTTC	360
	aACACCTGGa TTAACTCGTA ALACAACTTG aACCGTATCA TTAGCATAGC GGTCTATTAA	420

i	AATTICATGT TTCGTTTTAT TGTTACCATG GAAATGGATG CGACTCGGTT CAAAA	535
	(2) INFORMATION FOR SEQ ID NO: 1029:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(b) loroLogi: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1029:	-
15	GAAGATGATT GAATTATGGA ATTTTTTTCG AGATATGTTA TTTCGGGGAT CAGAT	TTTGC 60
	GATTTTGCCT TGGATAGAGT AGTTGCGATT TGTAAATACG TTTTTCAGGT TCGAT	CCAAT 120
,	TTCGTTGTTA AGATAATATG GATTAGTTTC ACTGACATGT TGATGCATGT CTTTT	TTGTT 180
20	CTGATAAAGT ATAAAATGTT TACTTAACAT TACTTAGTAT GACACCTGCT AATTC	AAACA 240
	TTATTTGAGA CATTCTTTTC AAATTAATTA TAAATTTTTA CCLATAGACT AGTTTC	GATAT _. 300
•	TTATCTACAT CTCAAAATTC TCATCAACAA TCTGTCACAT CCAACATTTT TACTT	nAGT 359
25	(2) INFORMATION FOR SEQ ID NO: 1030:	
(D)	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid	
(xi) SEQUI	ENCE DESCRIPTION: SEQ ID NO: 1030:	
TACATTGGTA AAT	AATTCTC ATAGTTTATG TCTCGTTGAT TAATCCAATC ATTGTTTTTA 60	3
TCGGGTAAAA CAT	TCAAACT TTTCAAATTC ACAATTGATT GATGTTTCAT TAAAGTATCT 120	
AATTTTTGCT CTC	TAGTTAA ATATTCACCA ATGTCATTAT AATAGATATC GTGATTGTAA 180	. 4
CTTCCATCTT TAA	CTAAAAT AGATATAGCT ATCGGTGCTC TACTTCCTGA TCCAAATATT 240	
TTTCCACCTT CTT	TTCTTGa TTTTTCACCC TGTGTTCGTT GGTCGCCTCT CAAATTAATT 300	
ATGTACAGAT AGT	TAAATTC ATCGATAAAA CTTTTCTAAA T 341	4
(2) INFORMATION	N FOR SEQ ID NO: 1031:	
(A) (B) (C) (C)	NCE CHARACTERISTICS: LENGTH: 326 base pairs TYPE: nucleic acid STRANDEDNESS: double TOPOLOGY: linear	5

•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1031:	
	GTCTAACTTT AATGTTTAAA AANCTTAGAA ATTTTCTACT CATAAATGGA TGCTTTATGG	60
5	AATATTATTA ACAGGCCCAG CTTCAATGCT AGCTATAGAA TTTGGATGGT TCTTAACAGA	120
	GATGGGTAGA CAGCCTTGGA TTGTTCGTGG TTATATGCGC GTGGCAGAAG CAGCAACACA	180
	GCAGCGGAAT AACCTTCGTT ACAATTTTAT TTGGCATATG TACATCATTT AAGTATACAG	240
10	TGCAACGTAT ATCGTAGTTA AAATAACCGC GTAGAGAGTA ACGTAGCAGA GCAGAGGAAT	300
	GAAANATTAG CTTATGNAAC GGTAGG	326
15	(2) INFORMATION FOR SEQ ID NO: 1032:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1032:	
25	ACAATCAGGC TTGTGAAGAA TGAATTGCAT GACGTTTGTG TAATTGAACT GCGAGGTTTA	60
	ATTTCTAAAA TGCTCCAGnC CTCCAATGTA ATCGCATCTT GATATAACAT AGCGATCGCT	120
30	TGATTTGTCG TTGTATCAAC ACCTCTAAAC AACGTTTCAC CTATTCGGCA ATTCATTTAT	180
	TTTACCCAAA TCATTATATA AAAGTTGTGG TAACATGCTC GAAATACCAC CTGAAATAAT	240
	nTCAATCGAT ATCCTATTTC TCT	263
35	(2) INFORMATION FOR SEQ ID NO: 1033:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 514 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1033:	
45	TTTCTATAGA GGATCCTGTA GAGATGCAAA TTCCTGGTAT CGTCCAAATT AATGTGAATG	60
	ATAAAGCTGG CATAAACTAT GTAAATTCGT TTAAAGCTAT TTTAAGATGT GATCCTGATG	120
	TTATTTTAAT AGGTGAAATC AGAGATAAAG ATGTTGCCAA GTGTGTTATA CAGGCTAGTT	180
50	TAAGTGGTCA CCTTGTTCTG ACTACATTGC ATGCAACTGA TTGTAAAGGT GCTATTTTAA	240
	GGCTATTAGA AATGGGCATT TCTGTACAAG AATTGATACA GGCAACTAAC TTAATTATAA	300

	AGCAACAACT CCGATATTTC TTTTCCCaTA ATCATtCATT ACCATCATCA TTTAAGAACT	420
	TAGAAGATAA ACTTGATGAT ATGACAAAAG CAGGTGTCAT TTGTGAAACT ACAATGCATA	480
5	AATACATTTA AACTACATTC TAAGAAGCGA CAAT	514
	(2) INFORMATION FOR SEQ ID NO: 1034:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 598 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1034:	
	TTTTCACGA ACATTTTGT TTAAAATTTT CTTTCTTAAA CGTATACTTT CTGGTGTAAC	60
20	CTCAACAAGT TCATCATCAT TAATGAATTG TAACGCTTCT TCCAATGTTA GAATACGCGG	120
	TCTATTCATT GTTTGTGTTT GGTCTTTCGT TGCAGAACGT ACGTTAGTTT GATGTTTTGT	180
	TTTAGTGATG TTAACAGTTA AATCATTTTC ACGATTATGT TCACCAACAA TCATACCTTC	240
?5	ATAAACTTCA GTACCAGGTT CCATGAAGTT TACACCTCTA TCTTCAAGTC CCAAAATGGc	300
	ATAAGTACTT GCAGAACCTT GATCCATTGA AATTAATGCA CCATTACGAC GACCGCCAAT	360
	TTGTGCTTTA ATACGTGGTC TAAATTCYTC AAATGTATGG TTAATAATAC CGTAACCTCT	420
30	TGTCATTGAC ATAAATTCAG TCGTATAACC AATCATACCA CGAGCCGGTA CATTAAAGAT	480
	TAAACGTGTA AGTCCATTAT CAGTTGTAGT CATATCAACC ATTTCACCTT TACGTGCACC	540
35	TAAKGATTCa ATAACAGCAC CTGCATTTLC TTGTGGCACT TCACATTGCA CACGTTCA	598
.5	(2) INFORMATION FOR SEQ ID NO: 1035:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1035:	
	AAACAGTGCT TCATTATCGG TATTGATATT GATCCACAAG CCGTTGACCT AGGGCGCACA	60
•	ATCGTTAACG TCTTAGCACC AAATGAAGAT ATAACAATTA CGGATCAAAA GGTATCTGAA	120
50	CTTAAAGATA TCAAAGATGT GACGCATATC ATATTCAGCT CGACAATTCC TTTAAGTACC	180
	AGCATTTAGA AGGAATTATA TGANTTAACC AATGAAAATG TCCGTAGTGC CATGCGCCTT	240

	AAGTGGGCCA TGT	313
	(2) INFORMATION FOR SEQ ID NO: 1036:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	·
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1036:	
15	AATAATGAGT AGGTTTTGAT TACTTACGAG ATAACATGGT GAATTATTCT GAAGATAGAC	60
	TAATGCGTCC ATTACATTTT GCAATCATTG ATGAGGTTGA CTCAATTTTA AATCAACGAG	120
	GnCGACGCCA TTAATTATTT CTGGTGAACT GAAAAGTCAA CGTCACTTTA TACACAAGCA	180
20	AATGTTTTTG CGAAAATGTT AAAACAGGAC GAAGATTATA AATACGATGA AAAAC	235
	(2) INFORMATION FOR SEQ ID NO: 1037:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1037:	•
	nCAATATACC TCCTATCATC ACACAAAATG CGTTGTTTCG TATGATTTTC TCAACATCGT	60
35	AGACTAATGC AATCAGACAC AACACCATGC TCTATATCCA ATATTTGCTT TATTGCCTAT	120
	CAATGAGCGT ACTGCGTGCT TTTAAATAAT CATCATCAAT TAATGACTGT ACAGGCACCT	180
	CATGAAAATT ATCATCCGCC AAGTATTGCG CACGATCACT ATATGCTAAA TGCATCGCTT	240
40	GTATCAMATG ATGCAAGTAA TCA	263
	(2) INFORMATION FOR SEQ ID NO: 1038:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1038:	
	ATTGTACCTG GCACAATCTC ATTATGTATT GGATTATCAT CATTACGAGC GCCAAATATT	60

	ACCGTTATGA CATGTTGATC ATTTTTAGTN AATGTTAAAG CTATAACGTG TGATATTGCG	180
	AGTCTGTCGG CATTCAATAT CTTCnAAATG CCCTACAT	218
5	(2) INFORMATION FOR SEQ ID NO: 1039:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1039:	
	GTTTAGACGC TAATGRTGGC ATATATTACT TGCCATGCAA ATGAGTCATA AGGCATAGTT	60
	TTCAAGAAGG GTTCTGACAA TGAAGTGAGC AACATGTCAT GATGAGAAGC AGGACTATAC	120
20	AATGAGAATA ACCTTTTGAT TTTTCATGCA TAAGGCGATT CAATCAAAAG CAATCACCTT	180
	CCAACTGAAT TGTCATTTTG TAAAATAAAA TAATCGATCC AATCGTTATC TAATTCATAA	240
	ATGTGTAAAC ACATACGTTA TGAATGGATA ACGATTTTTT GTTATGTTAA AGTGGTACAT	300
25	TAATCATGTA TTTCGTATGA TAATTAACGA CAAGTGTAAT GGTTAAATGT ATTTTATGGA	360
	TGGAAATGCn ATAATAGGCC TGGGTTACCA TGGnGC	396
	(2) INFORMATION FOR SEQ ID NO: 1040:	•
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1040:	
40	AGCATTTTGT TTAAAAGCTG ATGAAGCAAT AATAAACTCT TCATATCCTC TGTCCATTAC	60
	AATTTGACCT TGATATACAA TTTCTTTAAA GTTTTCGATT TCTTTAAATT CTCTGCTATC	120
	ATTTAAAATA GGTGCATTCG TAATAACATT CGCTTCCTTC TTATATCCTT TAGATTGATA	180
45	ATATTCTTTT GCTGCATGAC TTACTGTTAC GAAGGCATTA ACACGATGTT TTACTATGTG	240
	TTTTTCTATA CTTTCTACAA ACTTTGAAAT AAGTGGAACT TTATTAATAA AGGCATTTTT	300
	CGCATATATI TCATGCGCAT CATAAACAAT ATTAGCTTTT TLATAATTGC TTAAATAGAC	360
50	CATTAATAAT ACGTCGAAAT CATTTGCATG AATCACGTCA	400
	(2) INFORMATION FOR SEQ ID NO: 1041:	

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1041:	
10	ACTTGCGTTT CTATTTAGCT CAGACAGGAA AAATATTCGC TGGAAATATG TAGGAATTTT	60
	ACTTGCAATT CAGCTTATCT TTGCATTTAT CTTGCTTAAA ACTACAATGG GAATCAAGGT	120
	TATTGGTGGT ATTTCAAACG GTTTTAACTA CTTATTATTA AAAGCAGCAG ATGGTGTTAA	180
15	CTTTGTATTC GGTGGTATTC AATATATCGT CCCTAAGCAC CCACCCATTC CTCCTCCGGG	240
	GAATAATAAC CAACnGAATT AATTCCGn	268
	(2) INFORMATION FOR SEQ ID NO: 1042:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 277 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1042:	
30	GTGAAGATAA GAAATTAAAG TTAAGACAAG GTTAAAAATA AGCAAAAAAT ATTGAAATTA	60
	CAGATCATTG GADTGGTATT CCAGAGGAAG ATCAAGATTC ATTTTTGATC GCTTTTATCG	120
	ATGGATTAAA TCTCGTTCAA GAAGTCAAGC GGTAATGGAC TCGATTATCT ATTGCTCAAA	180
35	AAATCATCAA TTAAACGGnG ATCGATTAAA ATTAAAGTGA ATTAACAAGG AGCAACGTTA	240
	AATCTATTT AATCAGACTG AGACGTCATC AAGTCAT	27 7
	(2) INFORMATION FOR SEQ ID NO: 1043:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANGEN Since	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1043:	
50	TTATCATCAC AAGTGATTTT GAAAATAAAA AAATCGAAGA TGATGACAAT GATTCAGGTA	60
<i>50</i>	GTGTGCCGAT ATTGCCGTTT ATTAAACGAG ACAAAGCATA TCAAATTATC CAGAATTTAG	120
	TACCAGATTT ATCTTATCAA CAAGTTAATG AAGGTATGCC TTTGTCAGGG TTCCACAGAC	180

•	AACCATTATT ATTGTTATTA CCGATATAAC CATAGTCATA TGGTTATTGT GATCCAAGGT	300
	ACCTTATGTC AACAGCGGGT TAAAGCAGAG ACAATACATC AGATTCGGCA TGAACGAAAT	360
5	TATATTTAAn GCTnCTAAG	379
•	(2) INFORMATION FOR SEQ ID NO: 1044:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1044:	
-	ATATTGAACT TGAAGACCAT GCAGATATAA ATGAAATAAC ATATCGATTA TCAAAAATTT	60
20	TCGGTATTAA ATCTATTAGT CCAGTATTAA AAGTAGAAAA AACAATAGAG GCAATAAGTG	120
-	CAGGGACAAT TAAATTTGCG CCATTHTGAA GAAAACAGCA CATTTAAAAT TGATGTGAAG	180
25	CGTGCCGATA AAAATTTCCC AATGGATACG TATGAATTAC AGCGTGAATT GGGTGGTGCA	240
	GTATTGAAGC ACTTCGACAA TATTTCAGTG aATGTCaAAC GTCCAGATCA TGGAAATTCG	300
	AGTGGGMAGT TEAGGMTTAG ATGCCAATTT TATATGGTAT GNAAGAAGTT GGTTCCGGGG	360
30	TTCCAGGTGG GATTTACCNG TTGGGTACTG GTGGGTNAA	399
-	(2) INFORMATION FOR SEQ ID NO: 1045:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	٠
40	(vi) CROVENCE PROCEDURES OF TO US	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1045:	
	ANGATAAACA GAGGAGCACA AAAATGAATN NAAATATAAT CATCAAAAGT ATTGCGGCAT	60
45	TGACGATTTT AACATCAATA ACTGGTGTCG GCACAACAGT GGTTGATGGT ATTCAACAAA	120
	CAGCCAAAGC AGAAAATAGT GTGAAATTAA TTACCAACAC GAATGTTGCA CCATACAGTG	180
	GTGTTACATG GATGGGCGCT GGAACAGGAT TTGTAGTTGG GAATCATACA ATCATTACCA	240
50	ATAAACATGT TACTTATCAC ATGAAAGTCG GTGATGAAAT CAAAGCACAT CCTAATGGTT	300
	TTTATAATAA CGGTGGTGGA CTTTATAAAG TTACTAAGAT TGTAGATTAT CCTGGTAAAG	360
55	AAGATATTGC GGTCGTACAA GTTGAAGAAA AATCAACGCA	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 626 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1046:	
	ATAAACTTCT ACACCATCAT CTTTACCTAC AACATTTGTA GCTTTAACTT TTAGTCCAAA	60
	GTTATCTTTA AAGAATTGTT CACCTACTTT TTCAAATTCT TTACGATGCT TCTTCACAAA	120
15	TTCAATCGCA TCTTTTTCTG CAGGTGGTTG AAAGCCTTGT CCTACATATT TTGAAGCTTC	180
	CATTTCTTCT GGTACTGATT TTGTTTCTGT ATTTGTTTCT GTATTTGTT CTGTATTTGT	240
	GTCTTTTTT GATTCATTAT TCATCGCTGA ACATCCTGAT AACAGTAGCG TTGCTATTAA	300
20	GATTAATTTC GCCTTTTTAA ACATAGCTCA TCACCCATTT ATGTGKTTAT ATAGAATATT	360
	AAAAAGCATT TTAAAAAAAA TTTATTCATC TTTACGATAC ACTCCATATT CTATTGGATC	420
25	ATTATCATCA TAAAAGGCTT TTTTAGTATT AATAGTAGGC TTTCCTATTT GAATTGTAAT	480
25	TGTAGATTTT TCTGGCTTAT TTTTAAAATT ATATAGTTTA TCACTCAGTT CAATTACATC	540
	ATCAACTGTA TTGTCTTTAG TAAAATTTTC CTTTGTACTA AACAATGTTG TTACTGTATC	600
30	TGTATTAGCA GCGNAATTCA CTTCTT	626
	(2) INFORMATION FOR SEQ ID NO: 1047:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1047:	
	GACGGCGTTC AAAATGCAAC GGTCAATTTA ACAACAGAGC AAGCTAAAGT TGACTATTAT	60
45	CCTGAAGAAA CAGATGCTGA TAAACTTGTC ACTCGCATTC AAAAATTAGG TATGACGCGT	120
70	CTATTAAAGA TAACAATAAA GTCAACGTCA CGCAACTGAA GCGTACAACA TAAATTGATA	180
	GnTATCATAT CAGCAGTATA TCTTACCACT ATAATGTAAT GTTGACACTT TCATATGCAT	240
50	ATACAGACTA TTACGATCAT GTCCATTATT TAGCCCACTG TCATTATATG GTGGCATTAT	300
	GAGGGTATAA ACTTAGn	317
	(2) INFORMATION FOR SEQ ID NO: 1048:	

. 5	(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1048:	
10	ATACGNATTA TGCAAAAAAT AAAGTGAGAT TGGCATATGT GTAAATCTAA AATACTGTTG	60
	AAAAATATTT TTAGTGAAGT AATCAGAAGT TAAAGATTTA ACTGAAGTAA AAATATAATC	120
	AAGATTACGA GTCATTAACA TTTAGCTTTA AAGAGGGAAA CATATCAAAG TAGGTTAGCT	180
15	AAGNAAAACA CCGACTAAAT CGGGGATATT TCGTGACATG TTG	223
	(2) INFORMATION FOR SEQ ID NO: 1049:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 608 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1049:	
	AAATATGAAT AATGCAATTG ACCAACGTTC GATAACGTTG CCATACCCAT ATTAAATTTT	60
30	GTATAACCTT GTTCTTTACT CCAAAGTAAC ATATGCAAGT ATAGACCATC CATTAATGGT	120
	AAATCTAACT CTGGCAACCA TCTAATTAAA TCGACTGAAA TGGCATCATT AAAGTATGTT	180
	GGCATTAAAC TACAAAATGC AATTACTTCA TTTTCTTCAT TTCGCATTAC ACCAATTGGC	240
35	GCTTTAGATA AGTATTCTTC ATTAAATnCA CCAACAGAGA AATGCATTTC CYGACGATTA	300
	TCTAGCCATA AATGACTTAC ATGTTGAAGE TCATTTALAA ATTCAGTTGr AAACGGEGGE	360
40	TCAATAATTT CGAACGAAAT ATTAAGTTCA TCGAATTHAT TTAAAGTCGC TCTAAATCCC	420
.•	ACGGCGTTTT TTACCTGAAG TTGAAAATTG CGTTAAATCA ATAATTGCTT CTTCACCTAA	480
	TTTGAAAAAT TGGTTACCGG nATTATGATA TAAAGGCATG TGTTGATCTG TAACTTGATA	540
45	GAATATAACA TCATAGCCTA AATACTCAGC GTAATTATAG AATGCTTCTA ACAATTCATC	600
	AAAGGCAT	608
	(2) INFORMATION FOR SEQ ID NO: 1050:	•
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi). SEQUENCE DESCRIPTION: SEQ ID NO: 1050:	
	TGTTTTCTA CGCTAAACTA TATGATAAAT TGCCTATGTA TTTACTGGTG TTTATGGCCT	60
5	TTACAGCTGT AATTTTGATT ATGATGTACA TACAAGAGAA AAATGAAAAT TACAAAGTTG	120
	AAAAAAGATA TGTGGTTAGA TATCTCACAC TTAACGTTAT TGTGGGATAT ACTTTGCCAT	180
	TGCTTTTTGT ATCTATTTAC GTTTTTGGTG TAGTCGGTTT TGGATTTGAT GTTTTCAATT	240
10	ATTGTCTAGG TAKTATCTTG ATGTYATWTA TTTCTTGGTT TAGGTTTATT nT	292
	(2) INFORMATION FOR SEQ ID NO: 1051:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 734 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1051:	
	TAAATCHTCA AAGATTTCTT CTAAAACATT ATAATCTTCA ACGATACTCG AATAATAATA	60
25	CAGCTCATCA TTTCTGGGCT TGGTATAATA AAATATAACT TGCCCACCTC CATCGTCCAC	120
	ATATGCAATT ACATATACCT TTTCCCACTC TACTGGTATC ATTTCATTGA TCTCATTTGC	180
30	AATTTTATTG TACATTTCAC TTAATTTTTC TTCGAAATTC ATGTTATCGC CTCTATTGTT	240
30	CAGCTTCTTC TTGCTCTTTA ACATATTGCT CGATTTCTTT AACTTTATTA ATTTCATATT	300
	CCGTTTCTGG TAAAATTCCA AATTTTCTAT ACTTATAGTA ATTTTGTCGA CCTACTTGAC	360
35	CAAATTCTGA ATTTATCCAA TCAATATAAT CAAATGAAAC TTTTAATTCA CCTTCTCTTG	420
	TAAAGTCAAA TTCGCATGAT GTCCATGGTT CATGTCCTTC TTCTTTAAAT AAATTCCTTA	480
	AATTTTGAAA TTGTTTATAC AACTCATACA CTGAATCCAT AAATTCCGAT TCCGATATAT	540
40	CATATTTATT TAATACACTA GTATAGTAGT ATAATTCATT ACTTCCAGGT TCTGTGTAAT	600
	AGTAGAACAC TTCTCCTCCT CCGTCATCTA TATATGCCAT TGCATATACC TTTTCCCACT	660
45	CTACCGGTAT CATGCTGCTA ATCTTATTCG CAATCTCGCT ATACATTTCA CTTAATTTTT	720
45	CTTCGAAAGT CATG	734
	(2) INFORMATION FOR SEQ ID NO: 1052:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 775 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1052:	
	ATTTTTAACC AAAATTGCTT TTTTATCTGA AAAGAAAGGC AATGTTAATG TTTCTTCAAC	60
5	AATTGGTGCA ATCTCTGTTT CGTATAAATT ATATTTCACA AAGTTAAAGT CATCTCTATC	120
	ACTITICAAA AATIGIGATA IGATITCIGC ACTITGITIT ICAACCAATI CAGGCACAIC	180
	TCCATAAATA GCTACAATAT TGTCGCTCAT TCATTACACC CTTTCATTCG TTTGACACAT	240
10	CAATAGATTA TATCATGTTT CTGTATCTAT AAACCACTTG CATTTCCATA AGAGCTTGAA	300
	TCAACTTTTA AATTATCATC TAAGTCAATT GTAACTTGAC CGTTTLGTTG ACTATTGTAA	360
15	ATGCGLACTG CGAATCCTTT GCAATCGTTL aACAACTTCT ATATTAGGAA GWTGATACAT	420
	ATTGTTCTTC CCAGAAGAAA TCAAACTTAT TTTAGGCTTA ATCATCTCTA TAAATTCTTT	480
	AGAACTACTT GTCTTGCTCC CATGATGTCC TACTTTTAAA ATATCAATCT CCGGCAAGTT	540
20	ATATTTTTT AGTAGTAAAG ATTCATTATT TTTACTAGCA TCGCCCATTA ATAAAACTTT	600
	TTTATTTTGA TATGTAATCA TAGTAATAAT CGAATACTCA TTTTTATCTC GGCTATTTGG	660
•	AATAAAACTA TCAAAAAAAT AGAAAACTAC TATCTCCAAG TTTAAAACTA CTAACTTGTC	720
25	TTACATCCAT AAGTTTAATG GTTGTACTTA TGGGCTTAAT TTCCGATAAT AACCA	775
	(2) INFORMATION FOR SEQ ID NO: 1053:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1053:	
	GAGACCAATC ATCATAATGA ACGACAATCA TGTATTTAAT ATTTAATAAA ATACTGAATA	60
40	ATGCTATAAC TGCCATTAAT TGAAGACCAA TCGCATCTAA TGCGACAACA CGATCGGCAA	120
	GTGATGGGCC TAGCACAACG CGAATGAGCA TAGCTAACAT AGGANGTGAC AACTATGATT	180
	AATGCAATAA CGATGAATAA CCTTGATGAN TCATTATAAT TCGCCCACCT CTCT	234
45	(2) INFORMATION FOR SEQ ID NO: 1054:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CTACTGGTAT CATCCACTGA TTTCATTTGC AATTTCATTG TACATTTGAC TTAGCTTTTC	60
	TTCGAAAGTC ATGTTATCGC CCCTATAGTT CAGCTTCATC TTGCTCTTTA ATATATTGCT	120
5	CGATTTCTTT AACTTCTTCC ATTTCGTATT CCATTTCTGG TAAAACACCA AACTTTTAT	180
	ACATATAATA GTTTTCACGG CCTAATTGAT CAAACTCTGT ATTTATCCAA TCAATATAAT	240
	CAAATGAAAC TTTTAATTTA CCTTCGCTTG TAAAGTCAAA TTCACTTGAT GTCCATGGTT	300
10	CAAGCCCTTC TTCTTTAGAA AGTTTCTCTT AACTTCTTAA ACAATCTATA TAAATCCGTC	360
	CACAAATCAT AAAATACTTT TTCAGAGACA TTATACTCTC	400
15	(2) INFORMATION FOR SEQ ID NO: 1055:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1055:	
25	GNGGCATATA TAGCGTTGGC GGTATAACAA AGAAAAATGT GAGATCAGTG TTTGGATTTG	60
	TAAGTAATCC AAGTCTACAA GTTAAAAAAG TTGATGCTAA AAATGGCTTT TCGATAAACG	120
30	AGTTGTTTTT TATTCAAAAG GAAGAAGTAT CATTGAAGGA ACTGAACTTT AAAATAAGAA	180
50	AACTCTTAAT CGAAAAATAT AGATTGTATA AAGGAACGTC TGATAAAGGT AGAATTGTTA	240
	TCAATATGAA AGACGAAAAG AAGCATGAAA TTGATTTAAG TGAAAAATTA AGTTTTGAAC	300
35	GTATGTTTGa TGTAATGGAT AGTAAGCAAA TTA	333
	(2) INFORMATION FOR SEQ ID NO: 1056:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 347 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1056:	
	TGGGCAGTTA CATTTATGAT TATCAGCACA TGTTTAGCTT ATAAATTTTT ACGAAAGTTT	60
50	AGCCGTTTAT AAAGCACATG CATAATGAAA CGAGTATITG CCACTTGATT AGTACTICAT	120
50	TATTATGTCG AAAATAAAAA TAAGTGGTAT TTTTAATATA TTAAGAAGCA CTCATAATCG	180
	GCTGTTAATT AATAATATTT TTCATAAGTA TTGATTCATC ATTTTCTTTA TGTTAAATAT	240

	TAATACAGAT ATCAATATGG CmaaaGTGTT mmatgaatca GAGGTAA	347
	(2) INFORMATION FOR SEQ ID NO: 1057:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1057:	
46	TCCAAAACGG AGAGCCAAGA GTTAACTCTA CTTATATAGG ATACGCGCCA ATTGATGATC	60
15	CAAAATTAGC GTTTTCAATT GTATATACAA ATCAGCCTGT ACCACCACCA TGGTTAACAG	120
	GTGGAGACTT AGGTAGAGAT GTAATTAACT ACTACTTTAA GCAGTTAGGT AAAGATGATA	180
20	AAAATAAAGA CAAAGACAAA TAAAATTTAA CCTGACGATT GTGTAGCGCA TGGTTGTAAA	240
	ATTTTAACTT TGCMAATATT ATAGATGTTG GTATAATAAT AAAGTCGTAT TEAGAAATGA	300
	TwAGGaGGGA AT	312
25	(2) INFORMATION FOR SEQ ID NO: 1058:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 404 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1058:	
35	GCCATTTTGC GATGCTAAAT CCATTGAAAA TGCAATACCT GAAAGTCCAC CAAACAAAGA	60
	ATTGTTATAT TGACCACTCT GTAAATATGG TGCTAATTTC ATGATGTACT TATGCACAAT	120
40	TTGCTCAGTA TTAATATCGA AAACTTTTEG ALAAGCATCT AAAAACAAAA TGATACCTGG	180
	TATACCATGT GATAAAGTTG AAGGTTCAAA ATAATCGGTT TCAGTAGATG CTTTTGAAAT	240
	GAAATCATCT ACTTCTGAAA TCTCTTGAAA CTTCTTCTTC AATATTAGAT TCATATCAAT	300
45	CATTTTEGTC ACCACCAA TGCTTTTGAG TTTTAACAAT TTCTTTTACA ATAGATAAAA	360
	CAAATGTTTC TTGATCCTTA TCAATGCCAA ATATTCGATT GRAG	404
	(2) INFORMATION FOR SEQ ID NO: 1059:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1059:	• •
5	ATGTACATAG GNATGACATA AGTGTGCCTT CTTTTTCAAG ACCCTCCATA GAAATAATAC	60
	ATGGATGTGC ACCACGNTAC TACCTCTTTA ACGTTACCAG AATTGATAAA TTAACTTTCT	120
	CTTGTGTTGC TAAACCTACA ACTGGTGTAC CTTCTTCGAT TAAGGCAATT GTACCATGTT	180
10	TAAGTTCTCC ACCAGCAAAA CCTCGCTGAA TGTAGAAATT CTTAAGTTTA AGT	233
	(2) INFORMATION FOR SEQ ID NO: 1060:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 295 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1060:	
	GCACCACTAC TGTTAATAAC ACACCTAAAA AAGTCGAAAT ATAAGGGTTA ATCGCTGTTT	60
25	TAAATGTATA TCCTAGTGCG ATTGCCATTA ATTATCCGAT AGCTTTTTCT GCTGCTTCCA	120
	TAGTCATCTC ACCTAATGTT GGATGTGCAT GGATTGTTAA TGCGATATCT TCAGCATTCA	180
	TACCAGCTTC AATTGCTAAA CCTAATTCAG AGATAATATC TGATGCACCA GTACCAACTA	240
30	CTTGAGCACC GATTAAAGTA TCATCTTCTT TAGTGTAATA AGTTTAACAA ATCCG	295
	(2) INFORMATION FOR SEQ ID NO: 1061:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1061:	
	CAATGCCTCT CGTGTTGCAG CTTCTTCCGG TGAAAAACCA ATATTTTCAA GTGCAATAAT	60
45	TTGATCTAAG TCCTGCATGA TTACTTTTCT TAATACCATA AAAACACTTC CTTAGCCCTA	120
,,,	TATATCAAAA GTAATACCTT CATCTTTATA TTCATTATTT TCAAACTACC TTCACTATAA	180
	AAAACGAGTC TTTTTATTGA AAGCCATTCG CCTTAATCAA TTAGACAAGT TGTATKATAC	240
50	GAATTAGTAA ATAATCATGA TTATAATTCA TTTTAAGCAT ACTCAAAAAG ACTGGTACAT	300
	GTATACCAGT CTAATTCGAA AAAATATATT TAGTTAAAAC CATTTCAAAA ACGACTTCAC	360

	(2) INFORMATION FOR SEQ ID NO: 1062:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1062:	
	AAGCTGCATA CTCTCCAAAC TTAGAACCAC CGAAGCGATT CACAAAATAT TTATTAGCTA	60
15	AAAAGTCGGC ACATAAAATT AATATTGTTA GCAATGCCAT AGATACATAA AACACCCATG	120
15	ATAAATGCTG ATTATGAAAG CCAAATTGAT AGATTAAAAA GCCAACCCAT AATACTAAAA	180
	CAGAAGGAAT AATCGGCTTA ATCAACCCAA CAAATGCTAA CATGAAGGCA GCGATGATAA	240
20	GTAGCCATAA AATAATTGTC ATGTTGATAT CACATCCTCT TTTGTATTTT TTGATTTTTA	300
	GTAAAGAATA TAAGTATCAT ACCTAACATG GTTGATGCTG CTGGATACCA AAANATACAT	360
•	TTTCCCAAAC CTTACCCAGT GGACTCCTAG GCACCACCTT	400
25	(2) INFORMATION FOR SEQ ID NO: 1063:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1063:	
	TGGATCAGAA GGAATCTGGA TGCCTATTGA TGACAAAGGA TACTTTAATT TTGACTTCAA	60
	AACGAAACGT TTCGATGATT TAGAGTTAAA GAAAAATGAT GAGATCTCAT TAACATTTGC	120
40	ACCTGATGAC GAAGATGAGG CATTGAAGTC ATTAATTTTC AAAACTAAGG TAACGAGTTT	180
	AGAAGATATT GATAAAGCAG AAACTAAATA TGACCATACT AAAGTGGAAA AAGTAAAAGT	240
	ATTGAAAGAT GTTAAAGAAG ATTTACATGT AGATGAAATT TACGGAAGCT TATATCATAC	300
45	AGAAAAAGGT AAAGGTATTC TTGATAAAGA AGGTACTAAA GTAATTAAAG GTAAGACTAA	360
	ATTCGCAAAT GCAGTTGTGA AGGTAGACTC TGAACTAGGT	400
	(2) INFORMATION FOR SEQ ID NO: 1064:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 434 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1064:	
5	GTGGTCGTGA AGCAACTGAT TTCAAAGAAG AAGATATCGA GCTTTTCAAA GACATTGCCG	60
	ACAAAGTAAA ACAAACAAAT AGTTATGATC TAGCGTTTGA TGAATTAGAA AAAGAAAAAG	120
	ACTTCCTGCA AGTCATTGTC AAAAACGATG ACAAAAACTT ACCTACTAAT CAAAATGTCG	180
10	CTCAACTAGT AGAAGATTTA CGCCTAGAAA TCCAGAAAAT GCGCGAAGAA CGTCACCTAC	240
	TTGGTCAAAT GATGAATCAA GTACATCAGC AACAACAAGA ATTAAAAGAA CTTCAAAATC	300
	AACTTACATC TAAAATCGAT TCAAATAGCG AATCCTTAAA AGCCATCCAA ACATCACAAG	- 360
15	AGGCTATCCA AGAAGCGCAA GCCTCTCAAG CAAAAGCATT AGCTGAATCC ACCAATAAAG	420
	TTGGAAAGAA TGCT	434
	(2) INFORMATION FOR SEQ ID NO: 1065:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1065:	٠
30	TAAAACATAT GGCTTGATAT TGCAGAAGAA TTGAAGTTAT CGTACCAGAA ACGGTACATA	60
	ATCATGATTA TATGGAAACG AAAAAAATAA AAATGGGTCA TTTAATATAG GAGGATTTAA	120
	CATTGAATTT TGAAGGTAAn TAATTGGAAA AGATTTGAAG TTGCATCGTT ATTATCGTTT	180
35	AATGATTTTA TCACTGGAAG ATTACTTGAA GGTGCAAAAG ATACNTTGAT TCGACATGA	239
	(2) INFORMATION FOR SEQ ID NO: 1066:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1066:	
	AAATATCTAT AGACCTTTAT TCGGAAATGG TTCGTCTCCA GAATGGAAGG ATGAAGTACC	
	•	60
50	GAGTATTGAA AGGTAGAAGG TCTCCAAACT TTACCTGAAC GTGCACGAAA TCTAACTGAA GATGATTTAG CAATTGAATT GAAACAGCCA ATTGTCGGTT GTAATAACTT AGGAGAGTTA	120
	TAIGAILIMG CAAIIGAMII GAAACAGCCA AIIGICGGII GIAAIAACII AGGAGAGTTA	TRO

(2) INFORMATION FOR SEQ ID NO: 1067:

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 749 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1067:	
	CTACAATTCG ATCAACGCCG AAGTTAGATA CACCGATTGC TTTAATTTTA CCATTTTCTT	6
15	TTAACTCTTC TAATGCACGC CATGAGCCAT ATACGTCATT GTAAGGTTGG TGAATAAGCA	12
15.	CTAGATCAAG ATAGTCCAAA TTTAATCGTT GTAATGATCG TTCGATTGAT TTGATAGTAT	18
	CTTCATAGTT AACATTTTCA ATCCATACTT TAGTCGTAAT GAATAGTTCA CTTCTATCAA	24
20	TACCTGAAGC TTCAATACCT TGACCTACTT CAGTTTCATT TAAATAACTT TGTGCTGTAT	30
	CAATATGTCT ATAACCCGCT TTAATTGCTT CTTTAACCGC TTCTGCnGTT TGTTCTTGAG	36
	GAATTTGAAA TACTCCGAAA CCTAATACTG GTATCTTTAC ATCTTTACTT ATTTCAATAT	42
25	GATTCATAAA ATGAACCTCC TTTATCTtGT ATGTCCACTA TAAACCATGG AGCGAACTCT	48
	ATAGCAAGCC ATAGGTTTAC TTTCTCTCCC AAAGACGTTC AACATTGTCA TCATAATTAT	54
	CACTAGCATT GATTTTAGCA ATATGATTAT CATAATTATC AATTTTATAT TGTAGTAAAT	60
<i>30</i>	CTCTCGCATC ATGAATTGTC TTTAAGTTTT CATTTAATTC TTCGAGTTGC TTATTTAAAA	66
	TTTGCTTTTG CTGTGCTTGA ATATTTTCAT TTTTAGGCAA NTGCGCTAAC CTGCAAAATT	72
	CGATAAGCGA TTCAATACTG ACGCCTGCA	74
35	(2) INFORMATION FOR SEQ ID NO: 1068:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 436 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1068:	
	TCCTCGAGAT AGACAAGAAT GGTGGTACAA TGTTTTTTAT GACGATGGCA AATATHATAA	6
	GAARATAATT AAGAATGACA TGTCAAAAAT TAGGCGTAAT TTTTAGATTT ATCTATATAT	12
50	TTATGCCACC GCTCAAACTT TTATMAAAAG TAAAAAGACA ATATTTATAT TGAACTTGTG	18
	ACGTGAATTT CTAAAACACA ACCAACAATC CACAAGGAAA CTAGTAAATA AGTTTAAATA	24

	TACTGACTAA AAAGATTTTG AAAGTGATTA AGTATTTAAA ACACGCCAAT CTTAAACCGC	360
	TATTGACAAA TATGAAGCGG AACCACCGTT GTnTTTCTTT TnCAGGTCCA ATTGAATAAA	420
5	TGTTGATGAA TAGAAT	436
	(2) INFORMATION FOR SEQ ID NO: 1069:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 551 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1069:	
	TTCTCAAGTA ACAGGTATTA TTGTTACTGG TACAATCAAT AGAGAAAAAT ATGGCATTAA	60
20	CTTTAACCAA GCACTTGAAA CTGGTGGCGT AATGCTAGGC AAAGATGTTA AATTCGAAGC	120
	ATCAGCTGAA TTCTCAATCT CAGAATAATC TCATTACACA ATCCTCATTG TTTTAATATA	180
	TATACGAAAT GCCAACTATA TCATCCCTAG GTATAGTTGG CATTTTTCGT TTAACTCATG	240
?5	TGTAACAAGC ACTAACTGTT CACCCTAATT TTAGACGCCT TTCATTCAGG TAGGTCTTAT	300
	TGAAACTGAA AACTTTGATG ACCTTTTGCA AAGCCATTAA CTGTATAAAG CATAGATCCT	360
	CCGCCCATTT CTATATCATT GGAACAAATG ATGAGTTGAT TTGTTCCAGG TATAAATTGC	420
30	GGATGAGTAG AACGTAACAT ATGCCCTTCA TCTCGGCCTG GTATCAATAT TTGTCCTATT	480
	GGATAACCCC TTTTATTAAA AACTAACACT CGACCTTGGA CCATACATTG CTACGGATAA	540
	ATTATCGGCA C	551
35	(2) INFORMATION FOR SEQ ID NO: 1070:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1070:	
	TATHATGGTA ACGCATGANC CTGTTGCAGC ACGCTATGCA AATCGAGTAG TGATGCTANA	60
	AGATGGTCAA ATTTTCACTG AATTATACCA AGGGGATGAC GATAAACATA CCTTTTTCAA	120
50	AGAAATAATA CGTGTACAAA GTGTTTTAGG TGGCGTTAAT TATGACCTTT AACGAGATAA	180
	TATTTAAAAA TTTCCGTCAA AATTTATCAC ATTATGCCAT CTATCTTTTT TCGTTAATTA	240

	CAGAGTCATA TCCAATTATA CnGGC	325
	(2) INFORMATION FOR SEQ ID NO: 1071:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 771 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(5) 10102001. 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1071:	
	TAAATGCCGC AATTGGATAG CTTTAATATA ATTAATAGTC AAGGTATTnC CAACAAnAAT	. 60
15	ATATTATCCA CCCGAAGGAA GCGGGGTATn TTTGTTACTG ACGTCCCACA AGAAGCACAn	120
	ATATTAGATA GTGCTTACTC TGAAATTAAA AAATTAAGAG ATTATGATGA AAAACTAATT	180
20	ATCCCAGGAT TTTTTGGCGT ATCTCATGAA GGATATATAG TTACATTTCC ACGTGGCGGA	240
	TCAGATATAA CTGGCGCCAT CATATCAAGT GGTGTTAGAG CCACAATTTA TGAAAATTTC	300
	ACCGATGTGT CTGGTATTTA TAAAGCTAAT CCAAATATCA TCAAAGATCC TGAATTAATC	360
25	GAAGAAATCA CTTATCGAGA AATGCGTGAA TTATCTTATG CTGGTTTTAG TGTTTTCCAT	420
	GATGAAGCCT TACAACCACT TTATAAAGAT CGCATCCCTG TGGTGATTAA AAATACGAAC	480
	CGCCCTCAAG ATAAGGGTAC ATTTATAGTG CATGATAGAG AAATAAATGC GAAAAATGTG	540
30	ATTAGCGGTA TAAGTTGTGA TAAAGATTTT ACCGTTATTA ATATCAAAAA GTATTTAATG	600
	AATAGACAAG TCGGCTTTAC TAGAAAGATA TTAGGTGTCT TAGAGGATAA TAATATTTCA	660
	TTTGATCATA TGCCTTCAGG TATTGATACT ATCAGTATCG TTATGCGTTC AAAACAAATT	720
35	CAAAATAAAG AAACAAAAGT ATTAAATGAA ATTCGTCAAA AATGTGATGT T	771
	(2) INFORMATION FOR SEQ ID NO: 1072:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1072:	
	CGGTGGATCC GTTTGATCTT GAGTGAGGTG CCAATGAAAG TTATGAGCCA CGTTGTCGCG	60
50	CGCACCATAT CGTAGCACCT AGTGATAATA ATAAGGAGGA ATTATAAGTG TTTGATCAAT	. 120
	TAGATATTGT AGAAGAAAGA TACGAACAGT TAAATGAACT GTTAATGACC CAGATGTTGn	180
55	,	
33		

(2) INFORMATION FOR SEQ ID NO: 1073:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 733 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1073:	
	CTTCTTGTGA GGGCGTTACA TCACCGGATG GATGATTATG AACTGCGATG ATTGCATTGG	6
15	CATTTTCTCT CACCGCAATA CTAAAAATTT CACGTGGATG TACAATCGAA CTATTTAATG	12
	TACCTTTAAA AACACAGGTT TCTTTAATCA CTACATTTTT TGAATTTAAC AATAAAATGA	18
	CAAAATGTTC TTGTGTTAAA TCTTTCATTG TTGGAATCAT ATAATCAGCA ACATCACTTG	24
20	GTTGCGTTAT TTKTATACGA TTATTTTCAG CTCTTCTCCC CATCCTTTCC CCTAACTCAA	30
	ATGCTGCTTT TAAAGTAATT GCTTTTTGTA ATCCAATCCC TTTAACTTTT ATCAAATCGT	36
	TAATTGAAGA TTTTTTCAAT TCATTCAGAT TCGAAGCAGA TTTAAGCAGT TCATTACTAA	42
25	TGTCTATGCT CGAGAATCCT TTTCTTCCGG TGTTAATTAA TATAGCTAAT AATTCTGTAT	48
	TCGAAAGACT TTTTGCACCA TGGCTTAACA AACGTTCTCT TGGCATTTCT GAAGTTACCA	54
	TTTCTTTAAT TTTCAAAAAT ATACGCCTCC TAAAAATTGA TGGATATCAT TATAAAAAAG	60
30	TGAATTGATA AAAAAGGAYA TAAATATAAA TGGAACAAGG GGTAATAGTT TAATCGGCTT	66
	AAATATCATG GTAATTAAAG CAACTAAACC AGCAATGACA AATGTAAATA ANATGACATA	72
35	AATAGTGAAT TGG	73
	(2) INFORMATION FOR SEQ ID NO: 1074:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 768 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1074:	
	ATGGTTATTT TTTATGCTCT AAATCGTATG TGTTTATAAG GTTCAATTTC TTGCCATTAT	6
50	TAATTTTGCC GAGCAGTAAT GGGTTGTTAA AGTATCCATC AATTATGCTT AGCAATATTG	12
50	AAAAATTTAA ATGAAAAAGC GGTTCAATTC TTGAAAAATA GTGTATATTT ACATTTTGGT	18
-	AATAACTAAC TATAATTTAC ATAAGGAGGT TGTCATTTGG TAGTATTGTT ATCTTATAGT	24

	TATTTACATA GAAGATCGAA ATGTGATTAT TGTAATTCGT CACTCAAAWG GTATGAATTA	360
	ATGCCGATTA TTAGTTTTTT ATTATTAAAA GGGCGATGTC GAAACTGTCG AAAGCGTATT	420
5 . ·	TCCCTAACAC ATTTCTTAGG GGAAACCTTT GCTTTAATAC CTATCGTCTT TATTAAGTAT	480
	GATTTCACAT ACGTAAATGE ACGCTATTTA TAACTACATA TGTTETTCTG CTTATTTTTA	540
	CTATGACCGA TATCACTTCT TTAATGTTAG ATTGTCGCTT AATTATAATT TATTGTATCG	600
10	TTTCTCTCTC GTTAAGTATG ATTTATCCAG TAGCTTTTAT CATTATTAGT ATGACCACGC	660
	ATATATTCTA CTTTTTATTT CGGGCATATA TTGGTTATGG TGACGTTTTA CTAATATCTG	720
15	CACTTTCTTT GTTTTTCCCC TCTCCAATTC ACTATTTATG TCATTTTA	768
	(2) INFORMATION FOR SEQ ID NO: 1075:	
••	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
,	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1075:	
	TCATATTCAT TTAAAATACC ATTCATCTCA GCTTTTCTCA TTTTCTCTTT ATAAAGTTGT	60
	ATTTCGTGTC TTAATTCTGG CTCAGACATC TCACTCAATT TCTTCTGTTC CATCGGCAAT	120
30	ACCACTTTCT TCTAATTTAG CTTTAATTTT ATCATATTTA TATCCTTTTC TCATAAGGCC	180
	TTCGATAGTT TTTGAAATTA ATTTCTGTTG CGTGTACTTC TTTCGATTTT TATTATAAAT	240
35	TTTTTCTAAA TCTCGTTGTA ATAAATCGTC TAAAACCGCT TCATCTTGTG TAAAATCCAT	300
	TTCATTCAAT ACAGCATGAA TGGTTTCCAT TTCAAACCCT TTTTGAATTA AAGATTGCAT	360
	TACTTTTGCn TnAACTnTAT TTTGTGGCCC nTTTTTTGTT	400
40	(2) INFORMATION FOR SEQ ID NO: 1076:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 753 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(C) STRANDEDNESS: GOUDTE (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ 1D NO: 1076:	
50	TTAGGTCAAA ATATGTTTTA TCCAAAAGGC ATTTTATCTC AATCTGCTGA AGCAAAGAGT	60
	ACAACATATA ATGCAACTAT AGGTATGGCG ACAAACAAAG ACGGAAAAAT GTTTGCATCA	120

	CAAGGCATCG AAGAATTACG TGATTTATGG CAACAAAAA TGTTGCGTGA CAATCCAGAG	240
	CTATCAATCG ACAACATGTC ACTACCAATT GTTACGAATG CATTAACACA TGGTTTATCT	300
5	TTAGTTGGCG ATTTATTTGT AAATCAAGGT GACACTATCT TGTTACCAGA GCATAATTGG	360
	GGTAATTACA AACTTGTTTT CAATACGAGA AATGGTGCAA ACCTTCAAAC ATATCCTATC	420
10	TTTGATAAAG ACGGGCATTA TACTACTGAT TCACTTGTAG AAGCTTTACA ATCATACAAT	480
10	AAAGATAAAG TCATTATGAT TTTAAATTAT CCTAATAATC CGACAGGTTA CACACCTACG	540
	CATAAAGAAG TGACTACCAT CGTCGATGCA ATTAAAGCAT TAGCTGATAA AGGTACAAAA	600
15	GTTATAGCTG TTGTGGATGA CGCATACTAT GGTTTATTCT ATGAAGATGT GTATACTCAA	660
	TCATTATTTA CTGCATTATC TAATTTAAAT TCAAATGCAA TATTACCTGT TCGTTTAGAT	720
	GGTGCAACAA AAGAATTTTT CGCATGGGGA TTC	753
20	(2) INFORMATION FOR SEQ ID NO: 1077:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 405 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1077:	
	AGAAGCGATT TGACAATAAA ACAATTGAAA AACTTTTGGA AAGCAAGTGG TGGGAGAAAA	60
	CGCCTGACAA ACTAAAAGGA TTTTCGGTTG AATATTTAAA TAAAAAGGAT ACTTAATGAT	120
35	ATGAGAATTT TAAATATTGT ATCGAGTAAT ATTGTTCAAG ACCCAAGGGT ACTTAAACAA	180
	ATAGAAACAA TTAAAGGCGT TACGGATGAT TATAAAATTG TTGGAATGAA TAATTCACAA	240
	CTACTAATA AGCGATTGGA AAATTTAGAT TGTAATTATC GTTTGTTAGG TAGCAAGGTA	300
40	GATCCAAAAA ATATTCTTTC TAAATTAATT AAGCGTATAA GATTTGCAAC AGGTGLTATC	360
	CGAGAAATTA AAGCTTATAA ACCTGACGTG ALTCATGCAA ATGAT	405
	(2) INFORMATION FOR SEQ ID NO: 1078:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 504 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1078:	

	CATATTCACA CCTCAATATT CCATAACTTT TACTTTAATA TCAATCCACT TAAATCCATT	120
	CACATCATTG AGTATAAAAT AATATGGTGA TATACGTTGA AGTTGATTAT CTTATATATA	180
5	AGTATACTTC ACAGAATTTA TAAAATTGTT TAGTCATCAT CTTCAGTGTT TAATTCAAAA	240
	ATATAGAATC TACTGTATTG CATMATAAAT TGAAATGCCA CAAATTGTGC TCCAGCGATA	300
	ACCAACATGC TCACAATAAT TATAAACTTA GATTCTACGA CATTAGGMAC CALATATATT	360
10	CGATAATTTT TTCAATATAT ATAAATGAGC TCAACGCAGT TAATAATAAA CCGAAATGTG	420
	TTTTAGTTTT ACCACCCCAA CGTTTTGTTA CTTTAGGTAA TTTTAATAAC GTGAACATTC	480
15	CGCCAATTAC TAATAACAAA TAAC	504
	(2) INFORMATION FOR SEQ ID NO: 1079:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 645 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		-,.
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1079:	
•	CATTCTTAAT CAACTTCTTC ATAATGGGAA TTTGGCATGG TAnCGAAGTG TATTACATTG	60
20	TTTATGGTTT ATACCATGCA GCATTGTTTA TAGGTTATGG CTATTATGAA CGTTGGCGTA	120
30	AGAMACATCC GCCACGTTGG CAAAATGGTT TCACAACAGC ACTTAGCATT GTGATTACAT	180
	TCCACTTTGT AACATTTGGC TTTTTAATCT TCTCAGGTAA ACTTATATAA TAAAGGAGAA	240
35	TTTAATTATG GAATTTAGAG AACAAGTATT AAATTTATTA GCAGAAGTAG CAGAAAATGA	300
	TATTGTAAAA GAAAATCCAG ACGTAGAAAT TTTTGAAGAA GGTATTATTG ATTCTTTCCa	360
	AACAGTTGGA TTATTATTAG AGATTCAAAA TAAACTTGAT ATCGAAGTAT CTATTATGGA	420
40 ⁻	CTTTGaTAGA GATGAGTGGG CAACACCAAA TAAAATCGTT GAAGCATTAG AAGAGTTACG	480
	ATGAAATTAA AACCTTTTTT ACCCATTTTA ATTAGTGGAG CGGTATTCAT TGTCTTTCTA	540
	TTATTACCTG CTAGTTGGTT TACAGGATTA GTAAATGAAA AGACTGTAGA AGATAATAGA	600
45	ACTTCATTGA CAGATCAAGT ACTAAAAGGC ACACTCATTC AAGAT	645
	(2) INFORMATION FOR SEQ ID NO: 1080:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1080:	
	AGATGCCAAA ATCAAAACCA ATAATTTGGC AACAACATAT AAGTCCACTT TACCGGACCT	60
5	nTAAACTTAT CGTACTGTTA AGAACCAAAC GACTGCCATT ATTTGGTCCT AAAGCCACGA	120
	TGGTGGTAGC CnTTGTAATA ATGCTGGCGT AGAAATTAAC CGCCACCCCT AACACCGAAC	180
10	TATAACGCGG ATAAACCAAT AAAATTATGA TATAATCATC CGTTAAGTCA ATCCATAGTT	240
10	TAACATCCCT TATGTTTAAT TTACTCT	267
	(2) INFORMATION FOR SEQ ID NO: 1081:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 441 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1081:	•,
	ATATTTGTCC ACTATTAGAA GATTGTAGAG AAGGACAAAA ACGTTATAAA GCTAGTTTGA	60
25	AAGAAGCGTG ATAACATGAC AAATATTACA AAAGAGGTAT TTGATAATTT AGAACAAGAG	120
	ATTGATTTAT TTGCCAAAAA TAAGACATTA GGTTCTAGTG AAGCAAAGCC CTACTTGGAT	180
30	GAATACCATA GTAAAATTAT TGATTATTTT AAGCAGGTTA ATGACATAAC TGGCAATATT	240
,,,	GATTTTGATA AATTAAATCA ATATCCTGTT GTGCCAATGA ATTTTAAAGA AAGATATGAT	300
	TATATGATTG AACGTAAATA TCATTTTATG GGCTATCGAC AAATGAAGAC CTTTAAAACT	360
35	GAATTGATTA AAATGnATGC TAGTTATCAA ACAAGGTTAA AGAATAAGCA GGTATnGACA	420
	AGATTGATCA TTTCCTAGTG T	441
	(2) INFORMATION FOR SEQ ID NO: 1082:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
. •		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1082:	
50	AAAATTTCTT AGETGATGGT TATTGTTGTT GATTTGAATA ATTTGTAGCG AATATTTTGT	60
	AACAGGGCTA CTAAGAATTT TTATAACAAG AAGTGATTTC AATCGTACTA ATTTTCAGCG	120
	ምምምር አምር አርር እር እስስርምር ምርር እስስርምም እስጥ እስጥ እስርርርርር እጥ እስስርምም እርጥር እጥርርርጥ	196

.0-		
	GTTGAATATC AATAAAAGAT TAGCAAGTTA GTTCAAAATG GCTATGTATT GTTTTTTGAA	300
	ATACATAGGT TTGAAATCTA TATTAATTAT GCACCAAATA ATTTAATTAG ACTCTATCGA	360
5	AAATTTCCAA ATTTTGCTTA CTATCTTTCT AATTTTACTT TTATATTGTG	410
	(2) INFORMATION FOR SEQ ID NO: 1083:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 586 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1083:	
the contract	CAGATATTCC CTTCTATTTA CAAGTTGGTA ACCCATATTT ATCAGACAGC GTAGATAATC	60
20	ATACCGAAAA GTTGTTAGAA CGCTACGAGC AGTTGGTGGA TTTAGTTATG YAAAGTAATG	120
	ATATGAATCA CGTTTATGTG TTACCACAAC TTCATACATT ACTTTGGAGC AATAAAAAAG	180
	GTGTATAAAG GATAACTTAT TTTACTTTTT GCAAGTCATA TCTAATGAAT AACAATATAT	240
25	TAATTGATAT AATAGTTGAT TGAAGTATAA CGAACAGGAG TCCATCATGA TTGTATATAT	300
	ATTAATTAAT ATTGCTATCG TCGTACTTAT AACTGGATTC AATTTATATA GGCATCAAAT	360
20	GCAACATTTA TCATTAAGTG CAATGTTGTE ATCTATTACG ATAAACGCCT TTATAAATAC	420
30	ATTCATAATT GATAAATATA ACTTTATTAC TCTGTGTACT ATAACGATGT TTATCATTTG	480
	GACGATACTA CAGTTTTACA TTGATAAAAA ATTAAAACCT GTATACATTA CAGACCAAAA	540
35	ATTTATTGCT ATCATATTAA CGATTGTTGT CAGTTTAACG CAACGT	586
	(2) INFORMATION FOR SEQ ID NO: 1084:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 638 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1084:	
	•	
	AACACAAGGT AGCGTCATTA GCATTTAGAT TTTATTGCCA AATTATATAA CGATTTATAC	60
50	ATCAATAAGA AAACAATAGA TGATGTATCT GCAGTTTCTG AAGTGAAATA TGATATTAAA	120
	TCACAAATGA GTGATGATGA GATTAAGCGT TTAGAGGAAC AAGGACTTCA AGCTATTAAA	180
	GAAGGACAAT TTGCAGTACT TTTGATGGCA GGTGGTCAAG GAACAAGACT TGGTTACAAG	24(

	TTAAAAACAT TGAATCATCA ATCTGGACAT ACGATTCAAT GGTATATTAT GACAAGTGAT	360
	ATCAATCATG AAGAAACTTT AGCTTATTTC GAAGCACATA GTTATTTTGG ATATGATCAA	420
5	GAAGCAATCC ATTTCTTTAA ACAAGATAAT ATTGTGGCGC TTAGTGAAGA AGGGAAGTTA	480
	ATTTTAAATC AACAGGTCG TATTATGGAA ACGCCGAATG GTAATGGTGG CGTGTTTAAA	540
	TCTTTAGACA AGGCAGGATA CTTAGAAGAA ATGTCTAATA ATGGCGTTAA GTCATATTTT	600
10	CTTGAATAAT CATCGACAAT GTTTTCAGTA ACATGTTG	638
	(2) INFORMATION FOR SEQ ID NO: 1085:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 618 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1085:	
	ATTGCAATAT TATCCGCTTG GTTCAACACG TCATCTTTAT tAATACCATT TATTGGAAAT	60
25	ECCACCCATT TCCcGGGCTE CTEACTTCCc TTTATAAAAC TGcCCATTTA ATGAATACTG	120
	TTTAGCTTCA TCTATTCGTA CTTCCACTAG TTTACCAATC ATTTCTTTAG GCGCTTTGAA	180
	ATTAACTAGC TTATTTTTAT CAGTGTAGCC AGCAAGAACC TGATCATCTT TTTTACTACT	240
30	TCCTTCACAA AGTACTGTTA CAGTTTGTCC TTCGTACTTA CTCATAGCTA TTTGTGAATA	300
	ATGACCAACT TTTTTATTCA AACGTTGCAA TCGTTCCTTT TTGACATTTA AAGGTACATT	360
35	ATCTTTCATT TTAGCAGCAG GCGTACCATC ACGTTGTGAA TACAAGTACG TATATGCATG	420
	TTCAAAACCA ACTTCATCAT ACAGAGTTAA AGTTTCTTCA AATTGTTCCT CTGATTCATT	480
	TGGATACCCT ACAATAATAT CTGTAGTTAA TGCTACATTA GGAATTCTAT CTTTGATTCG	540
40	TTTTACTAAA TCCAAATAAC TTTCTCGTGT ATATTTTCTA CCCATTATnT TTAATACTGC	600
	ATTATTTCCA GATTGAAC	618
	(2) INFORMATION FOR SEQ ID NO: 1086:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 502 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1086:

	CAGCAATATC ATGATCAGTT TAATTCATCA AGAAAGTCTA TCTATACTTT TACAGAAACA	120
	GTTCAACCAA ATCGTGTTAT TTATGATTTT TATGATTATG ATCCGTATCA ATTAGCAGCA	180
5	AATAATGCGA AAGCATTAAA GGATCATATT GAACAAAACT TTAACTTTAA AGTCCAAAGT	240
	ACCGGTGTTA KTTACTTTAG TGATGGTACA GTTAATATCA TTCAAGGTTC TGAAGAAAGA	300
	GATAAATATG TTGATACAGT TTCAACAAAA TCTTCGTTAC GACGTATTAT TAGCGAACCA	360
10	NAGAGCTATC TAAACACCCT TTAAATAAAG AACAGGTTGA NCAAATCACA GCTATATTCA	420
	AGTAAAATCA AAGGCATAAT AATCCATTAC GCTCGATACG CACTATGGTT ATTATGCCTT	480
	TAAATTATTT CTATATAA nT	502
15	(2) INFORMATION FOR SEQ ID NO: 1087:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 429 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(b) Topologi: Timear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1087:	
	TTGCCTGATG GACGATGGCC ATCACAGACT GAGTTTAGAT TGTCTTTAAT GCAACAACTT	60
	GCTGTAAACC AAATTACGAG TGGTAATGAA AGAATAAGTT CAGTTAATGG GCCACCAGGT	120
30	ACAGGTAAGA CTACTTTATT AAAAGATATA TTTGCTCATC TAGTAGTTGA MAGAGGTAAA	180
	GAGTTAGCTA AACTAAATAA TCCTAAAGAT GCATTTGTCA ArACAAAAAT TCATGAAACG	240
	GATGATAAAT ACGTATACTT ACTAAAGGAn nTATTGCCAA ATATAAGATG GTAGTCGCAT	300
35	CTAGTAATAA TGGAGCTGTT GAAAATATAT CTAAAGATTT ACCGAAAATT GAAGAAATTA	360
	TAAGANATCC CGAAAAATGT AAATTCCCTA AATATGAACA GAATTATGCA AATTTAGCAC	420
10	ATGAATTAA	429
40	(2) INFORMATION FOR SEQ ID NO: 1088:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 611 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1088:	
	TAAGACCTAA TATTTTGGnC CAATACTATG GTGCAGGTnA TTTATATATG ACACCAACAG	60

	ATCCATTATT ACATGAGTTT GGTACGAAAA AGTATCCAGA TGAATATCGA TATGGTTTCT	180
	ATGCTAAGCC AACATTGAAT AGACTTAACG GGGGATTCTT TGGACAAGTC TTTACTGTTT	240
5 ·	ACTATAATGA TAAGTATGTA GTTGTACTTG CATTAAATGT AAAAGGAAAC AATGAAGTTC	300
	GAATCAAACA TATTTATAAT GATATTTTAA AACAAAATAA ACCTTACAAT ACGAAGGGTG	360
	TTATTGTTCA ATAATTAATA TAGAAGATAT AACATGTATA TGGCATTAAG GCATCGACCT	420
10	TATCTGACCA GTATACGAGT TATATCTTCT TTTTTATAGT GGTAAAAAGT TTAAAGTATA	490
•	AGGTTGAAGA AGGATGAGTT TAAAAATATG TGTTAACTGA TAAAAGGGGA NATCATTTGG	540
15	TGAGTTGGCA TCAGnCTAAA nTGAATGAAG ACGAATACGT TGGTCCATGC GTGGTGTGAn	600
	TGTTTCTAA A	611
	(2) INFORMATION FOR SEQ ID NO: 1089:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 644 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(D) TOPOLOGI: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1089:	
	CTGGATAATC GCTTTAATAT GATCAATTTG CTTTTCACTC ATATTAAGCT TATCTAGCCC	60
30	TTTCATTTTA TTCATACCTG GAATCATTTT CATAATATCA TCCAGTGGTC CTAGATTTTT	120
	CACCYGWTCA AGTTGTTCTA AAAAATCATC TAAAGTAAAC GATGACTCAC GCATCTTTTT	180
35	CTCTAAATCT TTTGCTTTTT CTTGATCCAC ATCTTGTTGC GCTTTTTCAA TTAAACTTAA	240
	CACATCACCC ATACCTAAAA TACGTGATGC CATACGTTCA GGATGGAATA GCTCTAAACC	300
	ATCTAACTTT TCACTCATAC CAACAAATTT AATTGGTTTT TGTGTCACCG AACGAATAGA	360
40	TAAAGCTGCA CCACCACGTG LATCACCATC TAATTTAGTT AAGGLAACAC CTGTGACATC	420
	AAGTTGATCG TCAAAAGATT CTGCAACATT GACAGCATCT TGACCCGTCA TTGAATCGAC	480
	AACTAACATA ATTTCGTTTG GTTTAGCAAT GTCTTTTACT TCTTTTAATT CGTTCATCAA	540
45	TGCTTCATCG ATGTGTAATC GACCTGCTGG TATCAATGGA TTACAAAGTC TAAATGTTCT	600
	TCTTTAGCAN GTTTTAATGC ATTAGTTACA ATTTGGTGTG GGCC	644
	(2) INFORMATION FOR SEQ ID NO: 1090:	
50	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 207 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1090:	
5 .	GATCCTATCG TTTTAGTGCA TGGTTTCAAT GGGTTTACAG ATGATATTAA TCCTTCAGTG	60
	TTAACTCATT ATTAGGGCGG TAATAAAATG AACATTCGCC AAGATTTAGA AAAAATGGTT	120
	ACAAAGCTAT GAAGCAAGTA TAAGTGCTTT TGGAAGTAAC TATGACCGCG CATTGAACTT	180
10	TATTATTATA TCAAAGGCnG TCGnGTA	
	(2) INFORMATION FOR SEQ ID NO: 1091:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1091:	
	GACTCTAGAG GATCCCCGCT CAAATGCCAT TTGGTGATAT TCGTGAAGCT GCTGGCGAAA	60
05	AAACATTTAA TCCAGTGGAA GATCGTTTCG TAATAAAAAA ATAATCAATA TATTGTTAGG	120
25	AATGGGACAG AAATGATAAA GATTCATTAG TTATTCATTA TGTTGTAGTT CTTACACATT	180
	AGCCGCTGCT AATnGCAACT TAAGANTAGG TT	212
30	(2) INFORMATION FOR SEQ ID NO: 1092:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1092:	
40 	TGGACCTGCA ATTGGTTGCC AGCAGCAACT TTAGCTTCAT AGCTAGCTTT GTGAGCAAGT	60
	GGTAAACCTG GAACGATATC ACCAATTGCA TAGATATTGC TGATAGACGT ACGGCTTTGT	120
	TTATCAACnn CTAATAATCC ACGTCAGCGA ATTTAACACC TAATTCTTCT AGGCCTAATT	180
45	CGTCGTGTTT GGACGACGAC CTACATTA	208
	(2) INFORMATION FOR SEQ ID NO: 1093:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 902 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1093:	•
	CTTAAAAGTT GTnTCAATAA TGATTGTATT AGTTGCATGC TTATTATATA TGAATCATAG	60
5	TATTGATTTA CCTACCCTTA TTATGATTTC AATTTTTTCA TTTGTGATAT TTGATAGTGT	120
	TGAAAATATT AATAGTGCTG CACACGTACT TGAAATGATA GATATGACGA TAGATGATAT	180
10	TGMAAAGATA AAAAATGCTC CAGAACTGGA TGAGAATGGA AAAAATTTGA CGATTAAAAA	240
	TGAAAATATC GCTTTTCAAA ACGTGAACTT TTCATATGAT GATAAACAAG TGATAAAGAA	300
	TGTGAATTTT GAGATACCTA CACAAACATC AACAGCAATA ATTGGACCTT CAGGAAGTGG	360
15	GAAATCTACA TTATGTCACT TACTCTTGCG CTTTTATGAT ATCGATGATG GAAATATTCG	420
	CATCGATGGT GTTGATATTA AAGATATGAC ATTAAGTACG TTAATGTCGA AAATTAGTGC	480
	AGTATTTCAA AAGGTGTATT TATTTAATGA TACGATTGAA AATAACATAT TGTTTGGCAA	540
?0	TCCAGGTGCA ACGAAAGAAG AAATTATTCG TGCCGCGAAG CAAGCATGTT GCCACGACTT	600
	CATCATGTCA TTACCTGAGG GATATCAAAC AATGCTAAAT GAAAAAGGTA GTAATTTATC	660
	TGGCGGAGAA AAGCAAAGGA TTTCTATTGC TAGGGCGATA TTAAAAGATG CACCAATAAT	720
?5	TATTTTAGAT GAAGCAACTG CAAGTATTGA CCCTGAAAAT GAACAGCTGA TTCAAACGGC	780
	AATTAATGAA TTAAGTAAAG GCAAAACAGT AATTACAATT GCACATAAAC TTGAAACTAT	840
3 <i>0</i>	TAAANATGCA GATCAGATTA TAGTGCTCAA TGNAGGTGAA ATAATTCAAA AAGGTAGTCC	900
	TG	902
-	(2) INFORMATION FOR SEQ ID NO: 1094:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 632 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1094:	
	ACGCAAGGGA TATGATTAAA CACCATAATA TACAATCACC TTTTTTATAC ATGAAAGCAC	. 60
45	TAATAGAATC GATTCATTTA AACATAAAAC ATGATTTTAA CCAGCAAGAT TTGATTGAAA	120
	TACCAATTGT GTATGGTTCG AAATATGGTC CGGATTTAGA ATCACTTTTA AAACATTACA	180
50	AAATCAAGCT AGAAACTTTT ATTGAATTAC ATTCTAAGGC GCAATATTTT GTTTCGATGA	. 240
	TGGGATATTC ACCTGGGTTL CCTTATTTAA CTGGATTAAA TAAGAAATTG TATATTAATC	300

	GCGGTATTGT AACTACGGAT ACAATTAATG ATTGGTTAGT TATTGGTTAT ACACCATTAT	420
	CACTTTTTAA TCCGAAAGAA TCAGATTTCG CACGCTTAAA GTTAGGCGAT AATATTAAAT	480
5	TTAGACCTAT CAATGAAAAT GAATTAGAAG TAGGAGCGTT TAAAGATGTC AATCATAATT	540
	GAAAAAAGTG GCTTATTCAG TAGCTTTCAG ACTTTGGCAG AAGGGGATAT GAACATGATG	600
10	GTGTAATTCC ATGTGGTGCA CTTGATACTT TA	632
70	(2) INFORMATION FOR SEQ ID NO: 1095:	
. 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1095:	
	GCAACACGAT TGCTAAAAAA TGATATACTT ATTAATTGTT GCAACACTTG TTTATGTGAT	60
	ATACTGATCA TGGCATTGTG GCGGATTGAT GACCATACAC ATGACGTGAC AATGATAAAT	120
25	CATTGCCACT ACTTGTTAAA ACAGCAATTT CTCAAGTGGA AGCTGGTGCn ATATATTnCG	180
	CCAATAATAT GATGGATGGT TTGTTGCTGA AA	212
30	(2) INFORMATION FOR SEQ ID NO: 1096:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 466 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1096:	
40	AATGAACTGG GTATTnCTTT TGCCATGCTT GCCCACTGCC ATGCATTTGC TGAAGAATGT	60
	TTTTGTAGAA CCGGCTTAAG AATTTGAAGT TTGTAGTAGT ATCTAAAAAG ATTACTTGGT	120
	GATACTCAGG ATGAATTCCT TGTTCATTAT TTTCAGCTCC TTTGCCCTGA ACCATCTGGA	180
45	ACAGAGTTAT TTGTGAGTTT TTACCCAATA CTGTGTAATT ATAAAGGTAA TTAATTCAAA	240
	ACGCAAGCCC CTATATAATG TTTATTAAAT TATAGGTCGA CCCGTTTTAG TACTTTCTTC	300
50	TGCAGACTTT TGTAGCTGCT TGAAGAAATC TLCATTATTC TTAGACCTTT TAAGTTTGCG	360
	AATAAATCTT TCAGTAAAGT CAGTTGAGTC AGTGAATAGA TTTCTTAATT GCCATAATGT	420
	GTCTAATTCA GATTTACTTA TCAACAATnC TnCTTTACGC GTTGAA	466

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 208 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1097:	
10	TTTTGATTCA ATAGGCGGTT CCGTGTTATC ACTGACAACT TTAGTTGTAG CTTCATCTTT	60
	ATGTATTTCT TCGTTAAATC CTTCAAGTTT TTAGTCGTGG GATTTTAACC TCAGGATGTT	120
15	CCATCATGTC TTGACTATCA AGTCCTTnTA CACGTGTCTT TATGTGATGC TTGATTGCGT	180
	ncccttactt tttgaatagg ggtagtaa	208
	(2) INFORMATION FOR SEQ ID NO: 1098:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 571 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1098:	
	CCTTCAACGA AAATAGCATA TTGACCATAA ATATTATGAA TTGTTTGTTC AACATCTTCA	60
30	GTTATTGGAT CTTGACTCAA AAATACATTA AATACTTCAA TACCAAATTT ACGTGACATT	120
	TCTACAGCTT CATACGTATC AATAATACCA TCTTGACTAT AATTAAATGC AGACGGTTCG	180
35	CCGTCTGAAA ATANGATTAA AAATCGTTGA TGTTGATTTC GACGCATTAA TCGTTCACTT	240
	GCAACTCTAA TAGCAACACC ATCACGATTA TCATCTTGAG GTTCAAGTGC CATAATACGT	300
	GGGCCATCTT TTTCAAAGGT TGAGTAATCA TAGTTAATAA TTTCATTAAT GATATTTGGT	360
40	TGTGCATGCT CGTCTGAATC AAAGGCATCC TCACTGAATG ATAAAATTTC ATGTTTAATG	420
	TTCAATGCTT TTAACGTCTC GTGGAATAAC ACTACACCTT TCTTCGTTTC AGCCATTTTA	480
	TCATGCATAC TTGCTGGACG CATCAATTAA CAATGTAAAT GTnCGCATCA AATGATTnAC	540
45	TTAAATCTTG TTTTTTGTAA AACAATTTAT A	571
	(2) INFORMATION FOR SEQ ID NO: 1099:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 214 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

1832

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1099:	
	TGCAAGTGAA CAAGTCATTA ACTTGTTTAA TACACGTGGG GCACAAGTCG AAGAAGTTTG	60
5	GGTGAAGGGC CATGAAATTA CAGAAACTGG ATTAACGGCT GGTCAACAAA TACTTGGGAA	120
	ATAACAGTTC TATTAAGAAG CGGACAGATG GAAAAGATTT TACCTTTCAT CTGCCGCTTT	180
10	TTGATTTGAA GGCCGGACCn AATTTACCAn GGAA	214
	(2) INFORMATION FOR SEQ ID NO: 1100:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20.	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1100:	
	CACCGTATTG TACAAAGAAT TTAAAGTTTT CGATTTCTTn TCTTAATTTA TCATCAGCTA	, 60
	TCGGTTTGGT TGGGATAATT TTATTATGTT CCATTTTTAC TGGATATTCT TTTTCTTTAC	120
?5	TACGTGAGTA TCCTnTTTTA TCTTCCCATA ATTCCCTCAC AATAAATTCA CCTTTTGTCG	180
	TTCTGGTATT GCGGTCTACA TACAGGACCA ATCCTCTGGA TTCCATATTC TTTCCATTTG	240
30	TTTCTATIGT CATTTTAGAG TGAATTATCC AAGTGCCTTT GTCGCCCTTT TCAAACTCTT	300
	GATCTCGAAA GCCTTCCTTA TCATAAAAGT CTTCAAGATT TTTAGTTGGA TACAGGCTCA	360
	ACGTTTTGTT GAAGTTTTCT TTAATTTGTT TATCTTTACT GCTTTCTTCC TTTTTCATTC	420
35	CGCAAGCCCC TATAAAAACA GCTAATAATA CTAAATACAG CCAGAGCCTC AACCTTTTTG	480
	AGTGAATCAT CATTTCACAT CCCCATTTTT ATTTTTGATG CAAAGTTAAG TECAAATTCC	540
	AATATTAATA ATATTAGAGG AAALTTLATG ATTAAATCCT CGTGGATTLT AATTGTTAGT	600
40	TGTATTTTTC ACATATCAAC ATCACAAATT ATTTAAAAAG CGCAAATATC TTTATAATTT	660
	TTATTGGCCT AACCAACTAA TTAATTAAGA TAAATTGCGC TTATATTTAA AATAATAACA	720
45	CTGAAACTCA ATGTATTTAC TTATTAAAAT TGATGTTTAA ATACAACTTT ACTAACATTC	780
, ,	ATTTTTCGGT TTACATTAAT TKGTTAGATA ACGATATATA TCALCTCTTA CAGCTTTATC	840
	CAGTGCTAAA TCCATCGTTA CTACGTTTGA ACCATTCGGC ATTTTATCTT GCTTTTCTGA	900
50	ACCTTCTATA TATCCAGCAG TTCCTAAATA ATAAAAATAT ATACCATCAT CATCTTTTTT	960
	CTGTACAAAA ATATACATTT TAATTCCTTT TGCTCTATGG GACAAAATTT TCTGAACTTC	1020
	TTTTGATTCT AGCGTTCTAT TAGATTTAGT AAACCATTTT AATTCATCTT GACTTAAAAA	1080

•	TGGCATTTCT TGGCTTTT	1158
	(2) INFORMATION FOR SEQ ID NO: 1101:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 353 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(B) 101020011 1111021	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1101:	
15	CCAAATGCTA TAAATGCAAA AATMGCTAAT GCGATATTTT TATAGAAAAT ATCTGGTCCT	60
	AAATTTTGTA AATACGTGGT AAACGTTGCG TATGACAATA AGCCAATCAC TACAGCGTAA	120
	ATATGTGAAA TAATTAAACC GAACCGTCTC GCTCTTTCAA AAACAAGTGT TGCTAAAATA	180
20	ATAATCAGTA ATCCAAATGA CAAGGGTTGT CGCCAACTTA ATGGTAAAAA CTGACCTAGA	240
	TAGCATCCTA TGCCAAATAT AATCCAATAA TACATAAAAT AAAGCCACAC TTTACTTALT	300
	GATTGAGCAT GCTGGTTTTG ATGATAATAT GAATGATTTG TATTTTGCGA CAA	353
25	(2) INFORMATION FOR SEQ ID NO: 1102:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 194 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1102:	
	CCCACACGTC TTCCACCGGA TAGGTTTCGA GCTCGGGCGA ACCGGGCAGG GCGGTGACCA	60
	CCCCGTGCGG TGTCTTCTTG GCCAGCTTGT TTGCGAGCTT GGCCAGCGTC TTCGTGGGGC	120
40	CAATGCCCAC GCAACACGGG ATGCCCACCC ATTGGAGGAT CTGGGCACGG ACCTGGCGGG	180
	CCATCGCTTC GnTG	194
	(2) INFORMATION FOR SEQ ID NO: 1103:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1103:	

	TCGCTTTTGC TTTTGCATCA GGTATTGCTG CTATTTCAGC ATACTTTTTG ACTTTCAAAT	120
	CTGGTGATCA TGTCATCTTA CCCGATGGAT GTATATGGGC GGTTACTTTT CGTCTCACTG	180
5	TGGCAAATTT TGGATCGATT TAATATTGAA TTTTACAACC	220
	(2) INFORMATION FOR SEQ ID NO: 1104:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1104:	
•	GGACATTGTA TCGACATTTC AAAGATAAAA GCGATTTATG CTACTACGTC ATACAAAGAG	60
20	ACCTTGATAT TTTTATCACT CATTTTAAGC AAATTAAAGA TGACTATCAT TCTAATTATG	120
	AGGTTATGCA AGTGTCGTCA TCGCTTTTAA ATAAGTCATA ATAAAAATCA AATAATTCTT	180
	GATAAAATGC GCTTTGGTAA AAACGTAATT TATTGTTGCC TGCTTCAATA CATTG	235
?5	(2) INFORMATION FOR SEQ ID NO: 1105:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
3 <i>5</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1105:	
	GCGGGGGCAG GTAAATCCAC TTTGACACAT CTTATTGCAG GTGTTTATCA GCCAACAATA	60
	GGTACTATAA GTACAAACCA GCGTGATTTT AATATTGGGA TACTTAGTCC ANAGCCCTAT	120
40	ATTTCAGGCT CTATAAAAGA GGATATTACG ATGTTTAAAG nTATAGAAAA TAATACTAAT	180
	GAAGAAGTGC TAGACGAAGT AGGGTTTATT AGACCAAGTG CCATCCTTC	229
	(2) INFORMATION FOR SEQ ID NO: 1106:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 596 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1106:	
	(XI) BEQUENCE DESCRIPTION, BEQ ID NO. 1100.	

	PAATTAAAAT CAAAATTTGA TGAAGTAAAT GTAATCGCGT CAACAAACGG TAGAAAGTTT	. 120
	ATTAATGGTG AAATATTAAA GCAATTTTGC GATAACTATT ATGACGAATT TGAAGACCCT	180
5	TTTTTAAATC ATGTAGATAT AGCAAATAAA CATGACAAGA TTATTATTTT ACCTGCGACT	240
	TCTAATACGA TTAATAAAAT TGCMAATGGT ATATGTGACA ATTTATTATT AACTATTTGT	300
	CATACAGCTT TTGxAAAACT TTCTATATTT CCAAATATGA ATTTACGAAT GTGGGAAAAT	360
10	CCAGTTACTC AAAATAATAT TCGATTATTA AAAGATTATG GTGTATCAAT ATATCCAGCA	420
	AATATTTCAG AAAGTTATGA ATTAGCGTCA AAAACATTTA AAAAGAATGT TGTCGCACCT	480
15	GGAACCATAT AAAGTTCTGG GAATTCATTT GAGATTAGAA TATGGAAAAT CATAAAGCGC	540
	GCKATTGATT AGTTTAATGA ATGATTGGAG TCnTTTGAAG ATnCGATTTA CAATGG	596
	(2) INFORMATION FOR SEQ ID NO: 1107:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 673 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	****
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1107:	
<i>30</i>	ACTAGCTAAA AATAATATTC TATTCTTTTT AACATGGGCA GTTCCAGCGG CAATTAGTGG	60
	TATTTATATT AAATATATAA ACAAGGCTAC GGTAGAAAGA TTTTTTAAAT TAGTATTTTT	120
	CATATTTTCT GTTTCATTTA TTTTTGTAAT TTTAATACCA AAACTTACAG GTGAGATACC	180
35	TAGCTATATC AATTTTGGAC TTATGAACTA TCAAAACGCT TCGTACCTTT CAGCATTTAC	240
	TGCCGGATTA GGCATTTATT TCATTATGAA AGGTTCAGTT AAACATAAGT GGATATATGT	300
	TCTATTTACA ATAATTGATA TCCCTATTGT GTTTATACCA GGAGGGCGTG GAGGTGCTAT	360
40	TTTATTAATT CTTTACGGCT TATTTGCATT TATACTTATT ACGTTTAAAA GAGGAATACC	420
	TATCGCAGTA AAAAGCATTA TGTATATTTT TGCATTAAGC ATATCTAGTG TATTGATTTA	480
45	CTTTCTTTTT ACAAAAGGTT CGAATACTAG AACATTTTCA TATCTACAAG GTGGAACACT	540
45	TAATTTAGAA GGTACTTCTG GGAAGAGGAC CGATTTATGA AAAAGGTATT TACTTLATTC	600
	AACAAAGTTC GTTATTAGGC TATGGGCCAT TTAACTATLA TAAACTAATC GGAAATATAC	660
50	CACATAACAG CAT	673
	(2) INFORMATION FOR SEQ ID NO: 1108:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 506 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1108:	
	TCACAGTGGC GGCACAAAAA GTAAGTGGAG ATTATTTTAA TTTAATTGAC CATAACGATG	60
10	GCACAATGAG CTTTGCTGTT GCAGATGTCA TTGGAAAAGG TATACCAGCT GCTTTAGCAA	120
	TGAGTATGAT AAAGTTTGGC ATGGATTCTT ATGGACACTC ACAATTACCG AGTGATGGTT	180
	TAAAACGTTT AAATCGTGTT GTTGAAAAGA ATATTAATCA AAATATGTTC GTCACAATGT	240
15	TTTATGGTTT ATATGAAGAA ATGAACCATT TATTGTATTG	300
	CTGGATATAT TTATCGCGCT GAAAAAGAAG AATTTGAAGA AATTTCAGTT AGAGGTAGAG	360
	TGTTAGGAAT CAGTTCACAA ACACGATATC AACAACAAGA AATTCCAATA TACCTTGATG	420
20	ATTTAATTAT CATTTTAACG GATGGTGTGA CTGAAGCTAG AAAAGTGAAG GTACCTTTAT	480
	AGATAAACAA AAACTTTTAG AATATA	506
	(2) INFORMATION FOR SEQ ID NO: 1109:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 552 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1109:	
·35	TGATATTGAA AAAGATGTCA TTGTTAAAGC ACAAGAAAGT AAAATTGCTC AAGTTATCAC	60
	GAATTTGTTA ACGAATGCAA TTAACTATTC TTATGAAGAT GGAGATATTA ACGTTCGTGT	120
	GTATCGAGAT GACTTTCGTG TCATTTTCGA AGTACAAGAT TTTGGTATAG GTATTAAATT	180
40	AGAAGACCAA CAACGTATTT TTGAAAGATT TTATAGAGTA GATAAAGCAC GAAGTAGNAG	240
	ATTCTGGTGG GACAGGTCTT GGATTATCAA TTACAAAGCA TATAGTAGAS GCCCACCAAG	300
	GCAATATTGA AGTGAATAGT CAAGTTGGCA AAGGCTCAAC GTTCAAAGTT ATTCTAAAAG	360
45	ATTATAAAGA ATAAAAATTA AAGTGGTAAC AGCGCGTGTA TTTTTCACGA AGTTGTTGCT	420
	GCTTTTTTAT TTCGTTCAAA TCTCTATTGG TATTAAATTA GAGTTAATGA AGTGGAATAA	480
	ATTCGGTTGT CAATTTTGTC ATTTGTATAT GTCGATTTGT AAGTTATAAG TAATAGATTG	540
50	TTGTGAATCA nG	552
	(2) INFORMATION FOR SEQ ID NO: 1110:	

5	(A) LENGTH: 244 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1110:	
	AACAGATCAA CAATTGCAGA TCAATTACTC GTCATATTGA TCAATTATCT CTGACAACGA	60
10	GTGATGATTT ATTACGTCAT TGATTGATCA TCACAAGATA AGTCGCTATT GATTTCTCAA	120
	TTTTACAACG ANATTAGGAA AGCTGNAGCA GATAATTGGC TAAGTTGGAC GATAAAGGTT	180
15	ATCAATCGCC AATCGTTGCC ATTGAAGAAC TTTTGCTCAC TGGCGCACGC TTCAGATGAT	240
	ATTT	244
	(2) INFORMATION FOR SEQ ID NO: 1111:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 825 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
05	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1111:	
30	AGTATTGAGT GTTTTGATTT AAGAGACTTG GAAAGTGAGT CAATAATCAA AATCTTACTC	60
	AATACTTTA TTTTGGTACT CGCAATTTAG ATTTGTTAAC TAATTTTTTC GCTTATTATA	120
	AAACGAAACA ATCAAGTAAA CGATAAAGCC TACAAAGATA CCCAATAAAA TAGATAGTAC	180
35	TGCCGTCACT ATTAATGGTA ATTTGAAAAA TATTTGTAGG AAAATmCCAA TGATAATTGC	240
	GATAATTACT GCAALTAATG TGACTGTATT TTCATTTGAA ATGTTCATET ATLLTCACTC	300
	CTEAACAATA ACATTATATC ATGCTATAGC TTTCCAAAAT ATTGAAATAT GTAGATATGG	360
40	CTATTGACGA TATTTCTTAA CTTTTATATG ATTAATCGGA ATGAAAAAAG AGAAGTAGGT	420
	GGCAATATGA AGTCAAATAA ATCGCTTGCT ATGATTGTGG TAGCCATCAT TATTGTAGGT	480
	GTATTAGCAT TTCAATTTAT GAATCATACG GGTCCTTTCA AAAAGGGGAC GAATCATGAA	540
45	ACTGTACAAG ATTTAAATGG TAAAGATAAA GTACATGTTC AAAGAGTTGT GGATGGTGAT	600
	ACATTTATTG CAAATCAAAA TGGTAAAGAA ATTAAAGTTA GGCTTATAGG GGTTGATACG	660
50	CCAGAAACGG TGAAACCGAA TACGCCTGTA CAACCATTTG GCAAAGAAGC ATCAAATTAT	720
55	AGTAAGAAGA CATTAACAAA TCAAGATGTT TATTTAGAAT ATGATAAAGA AAACCAAnTC	780
	GCTATGGTAG ACCATTGGCG TATGTATGGA TAAGTAAAGA TCGTA	825

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 621 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•••
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1112:	
10	TCCCTATAAA TCCCCACAAA AAAAGGGTAA ATCCGAACGT CAAATTTCAT CTCTTTATGC	60
	CAATCAACGA TCGATTTACC TTTTAAAATT TAAAATGTAT CTGTAATACT CTTAGCAATA	120
15	TITGTATATG CTGCATCTTC CATAGGTGGA TTGTGTAATC CTGCACGCAT GTCACGATAG	180
15	TAACGTTGTA ATGGTCGATT CATTTCTAAG CTTTTAGCAC CAACTATTCT CATCGCTAAA	240
	TCAATCACTT CAAGCCCTTG ATTCATTACC ATCACTTTAC TCGCACTTGT TGGATTTCTT	. 300
20	ATCTGACTGT CATCTTATA TTGTTGATAC CCTTTTGCTG TACTCCATAA AAATTGTCTC	360
	GCACATAACA ATAGCGTTTC CATTTTCCCT AAATTTTGTT GCACAGTTGG CAATGTTGCA	420
	ATCGTTCCTT CAATACTATT AGGGCTATGT TGGATTGCAA AGTCTACAGC ATAATTTCTA	480
25	GCAGCTTGTG CTATACCTAA ATAACAGCTT GGTATATGCA ATATCCAACC ATTTGGCGCT	540
	TTACTTTTCT CTGTTTCCAC TAAATGTTTT AATGGTACTT TTACATCATT TAATATTAAA	600
	TCATGACTTT CTGTCGCTCG C	621
30	(2) INFORMATION FOR SEQ ID NO: 1113:	
<i>35</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 619 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	,
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1113:	
	GTACCTTGTT TTTCAGTGTT AATTTCCCAA ATATAACCTG GTGTAATACC GTATTGTTTT	6
	GAGAAGTACT TGAAGGCACC TTCACTTGTa ATCATGGCAC GTTGTTCTTC TGGAATGTCA	12
45	TTAAATTTGT CTTTACTGTC TTTACTGTCA TTATTTAATT TTTCCAATTG AGCAATGTAT	18
	TTGTTACCTT GCTTTTCATA ATCTGCTTTA TGTTTTTTGT CGTTATCGAT AAATGTTTGT	24
	TGAATTGTTT TTACGTATTT AATACCGTTA TCTAAACTTA ACCATGCGTG TGGATCTTGT	30
50	TTATCTTTGT TGCCTTCTTC ACCGTTTAAA TAGATAGGTT TAACATCTTT TGATACTGCG	36
	ATAACTTTTT TATCTTTTAA TGATTTACCA GCCTGTTCTA AGGCTTTTTC AAACCAACCG	42

	ATATCYTTAG GTTLAACYTC ATAWTCATGA GGATCTKGAC CAACAGGTAC AATACNATGA	540
	ATATCGACGT TGTCTCCACC AACATTTTTA GCCATATCAG ATAGAATTGA ATTCGTCGnT	600
5	ACTACTTTNA ATTTGCCAT	619
	(2) INFORMATION FOR SEQ ID NO: 1114:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 549 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1114:	
	GAAAACCGCA CGACAATGAA AAAAGATATC CGGTTAAAAT GGTCGATAAT AAAATCATTC	60
20	CAACAAAGA AATTAAAGAT GAAAAAATAA AAAAAGAAAT CGAAAACTTT AAGTTCTTTG	120
	TTCAATATGG TGACTTTAAA AATTTGAAAA ATTATAAAGA CGGAGATATT TCATATAATC	180
	CAGAGGTGCC GAGTTATTCG GCTAAATATC AATTAACTAA TGATGATTAT AATGTAAAAC	240
25	AATTACGCAA AAGATATGAT ATACCGACGA GTAAAGCTCC AAAGTTATTG TTAAAAGGTT	300
	CAGGGAATTT AAAAGGCTCA TCAGTTGGAT ATAAAGATAT TGAATTTACG TTTGTAGAGA	360
	AAAAAGAGGA AAATATATAC TTTAGTGATA GCTTAGATTA TAAAAAAAGC GGAGATGTAT	420
3 0	AATCATGGCT CAATCAGAAT ATGAAATCAA TCCCGGAAAA AGAGAGTGAT GAAATGATAA	480
	AACGTGTAAA TAAATTAGTG CTTGGTATTA GTCTTCTGTT TTTAGTCATT AGTATGCACT	540
35	GCTGGTTGT	549
	(2) INFORMATION FOR SEQ ID NO: 1115:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1115:	
	TGTTATTGCA ACTATTAAAA ATATNAAAAA CAAAGACTTA ATTGATTATT CTTTATATAT	6
	TAAAAAAGGT TTAGTGGAGC CATTTATTGT ATTCTATAAT CAAGAAAATA TATTCTACAT	12
50	TAGCAATGCT GTTATAGATA TCATCAGTGT ATCCAAAGAT ACTCTTGATT ATATAAAGTC	18
	AGAATTCAAT GATCACTGTG ETCGCCATAC TGATTTTATA GCACAGAGAA AAGCCGTAGT	24
	•	

	TTATCATCTT CGATGAA	317
	(2) INFORMATION FOR SEQ ID NO: 1116:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(0) 10:0200: 12::001	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1116:	
	ACTATGACTG CAATGCCAAC AATGAATGTT ATTGCATAAA GCATATGCAT TTAATCAAGC	60
15	TTATGTTATT TAGCAAGGGC AAGCCACTTC TCGATTCATG GCTTGCCTTA TTTTATTGTA	120
	TATTTTTAAT TATCGTTGCT GGGCCCTTGA TTGACAATCG TATTAAAATG GCCTTATTAA	180
20	GTCAACTTTG TCTATACGGT TTGGAATCTT CTACCCAATG TCTTATAAAA GACAATCCCG	240
	CACCTGAAAC ATAACTCATG AARATAAGAA RATGGTATAC CATTAATRIG AATCCATTTC	300
	CANTITATAA CGTTGTAAAT GACACATAAT TAGAATCATA AAGTTITTCG TGGGATATTG	360
25		
20	AAACTTTACC CATACGAGAC ATCATGGATA AAAGCGAGGC	400
	(2) INFORMATION FOR SEQ ID NO: 1117:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 696 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1117:	
	TGCATATAAT GTTCAAACGG CAATGATTCC ACTGTATAAA CCTCTTGTCG TGGATGATCT	60
40	TTAATTTGTT GTTTTAATAA CTGAACTCTT TTTTCATGTT CATAATGAAC ATAAATAAAT	120
	GCACTAAGAT ATATCACAGC TAAAACTAGT GATGCACCTT TAATAAAATT AACATTGATT	180
	GACTTATATT TCCGAAATTC TTTTAATAAA ATAATTAAAA TGATTACATG TATCGTATAA	240
45	ACAATCAAAA AATTACCTGG TTCTATTGGA GTAACAATGA CTAGTGTCGA CGCCGAAACA	300
	CATATTGCAA TAAGTAAGGA ATATAAAGTG ATTTGTGTTT TACGATCATT AATAGACAAA	360
	TAAATACCTA CAAATATCGA AAACGCAAAG TAACCACATA CAATTACGTT CACAAAACCA	420
50	ACCARTCCAA TATCTGTATT TTTATTTAAT AAAAACTGAT TGTAAAATAG TAAATAATAA	480
	AGCGGTAAAG TGATAAATCC TATCATAATG ATACGACGCT TTAATATTGT TAAATGTACA	540

	ATCTGACTGA AAATGACACC ATATGGAAGT GACGTTGATA TCATTTCTGC AAATTTTGAA	660
	AAGATACCTT GATTATTTGA AACTTGTTGA TATTCT	696
5	(2) INFORMATION FOR SEQ ID NO: 1118:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1118:	
	GCAGTGACAA TCAATAATTT GTAACTAGAA GATAATAAAG AGAACGCTCT ATAGAGACGA	60
	ATTGAAGGTT TGATTTTAAT GTCTGTTAGT AAGAATCATA TCAATGAGAT GCCTATAGTA	120
20	CTCAGANTAT ATTAAATTAA AACCGTCATT AATTGTTTTT CCGAAAACCA TTTGTAACCA	180
	TTTNAATGTA GTTGGACCTA CCTACGTTCT CCAATAATCC ATT	223
	(2) INFORMATION FOR SEQ ID NO: 1119:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1119:	
35	CTGCTTTACC TITTCCAACT TTAGAAATTG CTACATAGGG GCCTTCTGCT TTACCGCCCC	60
	AATTCCAATT CCACATTTTC AAGAAATAAG GAGGCAAAAA TGTTCATATA TGAATTGGAA	120
	TTATTTGTTT TCTTATTAGG CCGAGATGCG CCGCGTGCGG CTGCTGGAGA TGGCGGACGC	180
40	GATGGATATG TTCTGCCAAG GGTTGGTTTG CGCATTCACA GTTCTCCGCA AGAATTGATT	240
	GGCTCCAATT CTTGGAGTGG TGAAT	265
45	(2) INFORMATION FOR SEQ ID NO: 1120:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(wi) SECTIFICE DESCRIPTION: SEC ID NO: 1120	

	CATGACATTA CATGCTTATT TAGGTAGAGC GGGAACAGGT AAGTCTACGA AAATGTTGAC	120
	CGAAATAAAA CAAAAAATGA AAGCAGATCC GCTTGGAGAT CCAATCATTT TAATTGCGCa	180
5	ACTCAAAGTA CATTTCAATT AGAACAAGCC TTTGTCAATG ATCCGGAATT AAATGGTAGT	240
	TTAAGAACAG AAGTGTTGCA TTTTGAACGA TTAAGTCATC GTATTTTCCA AGAAGTTGGT	300
	AGTTATAGCG AACAAAAGTn ATCTAAAGC	329
10	(2) INFORMATION FOR SEQ ID NO: 1121:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1121:	
	ACACCTCTTT TTTAATATAT GTGAACTATA TATAGTGTAT AGAGAGGTTA CTTGTTACTC	60
	AATATAAACA AAAATCAACT TTGTCAAAAT AAATGTGACA AAATTAAATA AAGTGTCATC	120
?5	AATGTGACAG TATAGATCAT TTTGCAAAAA GTCAAAACAA AAAAATTGTT TTAGGGATTT	180
	TTCAAAATTT TCATTGTGGA AAATGATTTG nCAAAACAAA ACAACACnTT GTGAGCAATG	. 240
30	AAGCTTCAAT GG	252
,,,	(2) INFORMATION FOR SEQ ID NO: 1122:	
35°	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1122:	
	NAATAATAGG CGCCACCTAA TAAACCAGCT GGAATGCCTA TCATTGGTGT TGTGAATGAG	60
45	CTTAATACAA TAACAAGTAT TGTTAAAGCA ATGACGTTAT ACCAAGTTAC AGTCAAATTT	120
73	TTCAAATCCT CATATGATTG TTTTACTAAT TCTCTAAATT TCATGATTCA ATCTCTCCTT	180
	TTCTTAAATC AATTAATAGT TATACTGCAT TGCTTAAAAT CAARATATCT AATGAAGCAT	240
50	CTTTTAATCG TAAGTGTTAA A'IGGTTTTCT TAATCAATTT GTTIGAATGT ATAANAGCAA	300
	TTAAAGCAAA AGTAATGTAA ATGAGGGTGT ATACAACAAT TACTACAATA ACCGGCATGA	360
	ACCABBATATT ACCCATCABT TTCATABATG CGATTGCGGC	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 270 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1123:	
10	AATACAACCT TTTATCATAG TGTAAATGTA TTCTACCAGT ATTGAGAAGT TTTCATATTA	60
	TTCAATACCT GAAATCGCCA TAGTAATATT ACTAAATGCA CACTGCATAT GTTGTTTAAC	120
15	AACACAACTT TAAAAATATA TTCTAACTCT ATCTACGAAT GTACTTAAAT ATCATAACAA	180
	TCTATTCCAA ATCNAATTAC ATTATTAGCT ACCTTAAAAA CCAAACCGAG GCCTTAGGCC	240
	TCGGTTTAAA TATATATAAC GnGCGACATG	270
20	(2) INFORMATION FOR SEQ ID NO: 1124:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1124:	•
00	GGTCTTCTGT ATCAAATTAT ATTATGAGAG TTAGACTCAG TATTAATGAA ATCGTTGATA	60
	AAGATCAAGT GCTTGCATCA CAAATAGGTG GATTACTATG ATGTTTAATC AAATTAATAA	120
35	TAAAAATGAA TTAGAAGAAT CATATGAATC TGAGAAAAAA CGTATAGAGA ATGAACTGCA	180
	AAATTTAAAT GAACTTAGGC ATAGAACTCG AAAAGAAAAT GAACGTAGTT ATGATGTTTT	240
	TCAATATTTG AAGCACGAAA TGAATTATAG TGAAGATGCC CAAAGGAAAA TGACGAGAAA	300
40	TATAGAAGCG TATGAGCAAG AAATCAATGA GATAATTAGA AAGCAAGAAT GGAAATTAGG	360
-	AAGAATATAA AGAAGACTTA AAAAAGTCTT ATGAAAAGCA	400
	(2) INFORMATION FOR SEQ ID NO: 1125:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 377 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1125:

	AAATATAYTC GATCATTGAT AATATGTGCT TTACTATTCC AAATAACTTT CAAATTTTGA	120
	TAATATTCAT CAATACTCTC AATATAACTA ACCAGTTTAT ACAACCATTC GCCATCGACT	180
5	TTCACATATT TTTGAATACT ATTTCCAAYT TtAAGACGTG TTGGTTCATT TACAAAATGC	240
	CCCAAATTAA TACCACTTAA TAATCCAAAT GGAGTTGGAC GTGTTGACAT TCTAATTAAA	300
	TATTITAATA AACTITCTTT AGCATCTCTA ACCTTCTTGT TATCGCCATC AAAATTTATT	360
10	nCnTGTAAAG TACAATA	377
	(2) INFORMATION FOR SEQ ID NO: 1126:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	۳.
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1126:	
	GTTACATTAC TGTTCATGTC CACAACGTTT GTCAGCGATT ATCATCATTG TGTTATATCT	60
25	TATTTATAGC AAGTGCATGG TCTGGATAAG TAAAGGTATT CATACTTAAG TAACTTGAAC	120
	ATTGGTTTAG GACTATTTTA ATGGTNCTGC TTNAATTGTT GGCCAACTGG TTCTTATTTT	180
30	AAATATGTAA CTAGCTCTAC GGGTAGTTAC TAAACACATC CTGGTTT.	227
	(2) INFORMATION FOR SEQ ID NO: 1127:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 717 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1127:	.
	CCAATGATAC CGTTATAGCA TGTTAATGTT TTTGTACGAA TATAATCTAA AACTTCGAGT	100
45	TCATCACTTA ATTTCCACGT TTCTGCTTTG TTTAACCACA TTAAAGGAGT ATGAATGnCA	120
	AAATCTTTGT CCATAGCTAG GCTTAATGTT ACGTTCATTG ATTTTATAAA ACTATCGCGA CAGTCTGGGT AGCCTGAAAA GTCTGTLTCA CATACGCCTG TAATAATATG CTTAGCCCCA	180
		240
50	ATTTGATAAG CIAGAGCGCC TGCAAACGAC AAGAAAAGTA AATTTCTAGC TGGAACAAAT GTATTAGGTA TACCATCTTC ATTATTAGTA ATTTCCATAT CATGTTGTGT TAATGCGTTT	360
55	GGAGTAAGTT GTGATAATAA TGACATATCT AAAACGTGAT GTTTCATTCC TTGATCTTGT	420

	AGTTCAACTT CTTTGAAATG TTTTTTTGCA TAAAAGAGAC ATGTTGTACT GTCTTGACCA	540
	CCACTAAAGA CAACGATGGC TTTTCATTA TTTAATACAC TTTCCATTTT GTAATTGCTC	600
5	CTATCATTAA TAATATTAAT AAAGAGGTTA ATGGCATTGA TAAGCCCGTT TTTAATTTAT	660
	AAAATAAAAA AAGCCNATCT CCATAAAAGA TAGACGANAG AAATGGGTTG CTCCTAT	717
	(2) INFORMATION FOR SEQ ID NO: 1128:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 595 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1128:	
20	GATTATTGCA TTGACAACTT ATATCTATCT AACGTTAGTA GCATTTAATT TCATTTCCGG	60
	GGTTCTAACT TTACCAGGAT TAGCGGCGTT GGTATTAGGT GTAGGTATGG CTGTAGATGC	120
	CAATATTATC ATGTATGAGC GTATTAAGGA TGAACTTCGA ATAGGTAGAA CGATAAAGCA	180
25	AGCCTTTTCT AAAGCAAACA AAAGTTCATT CCTAACAATT TTTGATTCTA ACTTAACAAC	240
	AGTTATCGCC GCAGCAGTAT TATTCTTCTT CGGTGAAAGT TCAGTTAAAG GTTTCGCGAC	300
~~	AATGTTATTA TTAGGTATTC TAATGATCTT TGTTACAGCC GTGTTCTTAT CAAGATTCTT	360
30	ATTATCATTA CTTGTTTCAT CAAATATATT CAAAAATCAA TTTTGGTTAT nTGGTGTTAA	420
	AAAGAATAAA CGACATGATA TTAATGAAGG TGTAGATGTT CATGACCTTA AAACTTCATT	480
35	CGAGAAATGG AATTTTGTTA AATTAGCTAA GCCATTAATT GGAGTAAGTA TTTTAATTGT	540
	AGTGTCGGTT AGTTATTCnT TATATCTCAA GTAAACTTAG GANTGANTCT CAAGT	595
	(2) INFORMATION FOR SEQ ID NO: 1129:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1129:	
50	ATTITAACTT TCTAAGAACA AGTTGTCAAG ATTTTTTCTT AACATATCAT GTTCTGTTAC	60
	AATATTAATA ATGAATACCG AAAGGACGAA TTGCAAATGA AAAGCGTTGG CTTAATCACA	120
	GAATATAATC CCTTTCATAA TGGGCATCAA TATCATATTA ATCAATCTAA AAAACTTACA	180
55		

	ATCTATAATA AGTTACTCGT GCAAAATGGC TTTCCACCGC TGTTTAGTTT CGGACTACCA	300
	GCAACTGCAG TTATCACTGG CGnCATTTGC GACTGCCGTT AAGCGCGGTT TTGGTGCGTA	360
5	CATGCnTGGn G	371
	(2) INFORMATION FOR SEQ ID NO: 1130:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1130:	
	ATGATGATGA GATTATGACT TTGCGAAAGA TATCGGTGCG CCTTATGAAT TTAAAACAnA	60
20	ntaaagacca tggtcgttac cggtagttaa ctttgcagct ggtggcgttg cgactcctcc	120
	AAGATGCTGC TTTAATGATG GAATTAGGTG CTGACGGTGT ATCCGTTGGA TCCGGGAATT	180
	TTAAAACCAG AAGATCCCGG	200
25	(2) INFORMATION FOR SEQ ID NO: 1131:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1131:	
	ATGAGCTAGT CGATTAAAGT TAATATTTGA AAATGAAGCA GGGCATTAAA TGCAATAAAT	60
	TAAATAAGTT GTCATTAAAG CATTAATAAT AGAAATGATT TTAACAGGAA AAAAGTGATG	120
40	AATATTTGGA AAAGATATAT ATCGTGCACT GTCCTGAGAG ATTAGATTTG GGAAACCAAT	180
	TTATCCnTGA ATCGAGATGT nGC	203
45	(2) INFORMATION FOR SEQ ID NO: 1132:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 1132:	

	ATCTAACAGT ATTGAAATCT TTGTTAGCGT CAATCGACCA TGTATTTTTA AGTATTGTCT	120
	CTAACAACTT AGCACGACGT CTTAACCCTT TAGTAAACAA TCCTTCTTTA GnTTTAGTAC	180
5	GT	182
	(2) INFORMATION FOR SEQ ID NO: 1133:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1133:	
	CAAATTTAGC CAGGAATACA AATACATATA ATAAAACTGT TTGTAAGCTT ACGTTGACAA	60
20	TCTGGCGTAA TTGGAAAACT AATGAATTTT CTCCAAGTAG GTTTTACCCT GTAAACMAAA	120
	TAACAATTCm AATAATATGr AATCACAAAg CGACTAGAAA TCCGGTAATA TGACTAATCA	180
	TATATTCAAT GTGTAATAAT TTTAACAGCA ATAAATAGAC AACATAATAA TTTAACGTAT	240
25	TAATGCCGCC AACAATGATA AATTTTAAAA TTTCAGCATG CGTTTGTGTT AGTTTCATAT	300
	GTGTACTCCT CAACATCAMA ATATATGCAT AACTACGTTC TCGAACATAC TCGAATATGC	360
	GAGCCAATCC GCTTCACTTC AAATATGCTT ATTTCAATCT TTATACCCTT TCACAGCAAT	420
30	TTAGTCTCTT THCCCTCATC CTTATAGGCC HTATATGTAA CCGATTATCG GGTGGACTCA	480
	TTGGC	485
35	(2) INFORMATION FOR SEQ ID NO: 1134:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 213 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1134:	
45	CTTGTTTTAT CGACAGATGC TGAACACGCA GTCAAAATAA ATAAATTACA TAATAAAATT	60
	CCAATTAATC TTTTCATAAT ATCATCCTTT TGTTTTTCAA TTGATATTCA TTTTCAATTA	120
50	TAAAATATTA rAAGAATTAG TCAACGCCTG TGAGTAATAC ACATCAGTAA CATTTCTATT	180
50	TTCATTTATG ATATTATCTA ATTATTAATT TAT	21:
	(2) INFORMATION FOR SEQ ID NO: 1135:	

. 5	(A) LENGTH: 526 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1135:	
10	TGTGACTCCA TGTATTCATG TATCATTGTA CATTTGTGAA TTGGTTGAAA ACTGATAGTG	. 60
	CCCGTTTAAT TACAGGTACT GAGGATGCTT TCAGGACATG GATTTGTTCG AAAATATGAC	120
	AATATTTCAC TATGGCTCTT CACTTCTCTA GGGAAATTGC TATCTTGATT AATCCAATCA	180
15	ACCAATTCAC CTAATGGTGT GTCATCACCA AGAAAACTTT GCATAAATTC GTAAAAGCTC	240
	AATACCTCAC CTCGATTaAT ATACTTGAGC CATTAATATA ATACCATAAA AGAATGTGTA	300
	TTTTaCATAA AACTTTTTaT AAAGCAATTT TATAAATCTA AATTTATTGA ATGTTTAAGA	360
20	AGTTGTGTAT AATGAAATAA ACGTGTTGAA ATAGTTAGGA TGATGTTAGT GGATATCAAA	420
	CATATGAAAT ATTNTATTGA AGTCGTTAAG CANGGAGGCA TGACTAATGC TTCCAAATCA	480
25	TTATATATTG CACAACCTAC AATTAGGAAA GCNATTAAAG ATATTG	526
23	(2) INFORMATION FOR SEQ ID NO: 1136:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1136:	
	AGCAAAAGCA ATGATGACAA AAGAACAAGC TATGTTAGCA GATGGAAGTA TTAAACAAGA	60
	TCAATATGAT AAACAACTGT TATCGANAAT CGGAAAATCA CAATTAGATG AATTGTCTTC	120
40	TAAAGATTTA CAAGTTTTAG CTATTTTTCC GAGAGATGAA TGCAGGAACA GTTTTAGATC	180
	CACAAATGAT AAAAnATGGA AGATGTTCAG TGCAAAAAGA GTATGGCAGC AGTTTTCTCC	240
	AGCAACTTT CCANATTTAC CCAGGTGTTT AACACGTCCT ATTGGATTTG GGCTTAGGAC	300
45 -	AATTATTCCA TATGGGCGGA T	321
	(2) INFORMATION FOR SEQ ID NO: 1137:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1137:	
	ATAAATCCTT ATAAAATCAT GAGTTGGACG ACTTATCCAC ACAATTATAC TTTTTCAGTT	60
5	CTCTATATGT CAAATACCTG TGAATATGTT GCTAAAAATA GTATAACTTT GTGTGTAATT	120
	TCTAATTATC CACAATTCTG AAAACTATAA ATGTGCATAA GTGGATAMCT TTCCTTCTAT	180
	AGAGTATCTG TTAGTGAGTG TATCAAAACA GTTTGGGAAA TAATTLATAA AGTnTGTATA	240
10	AGANCTGTAT AAGGTGTTCG AACATTGTAA ACACTCATGC TTCGGACCAA ACTCATGGTG	300
	ATGTTATGAA ATTTGATTGC TCGCATCGnG	330
15	(2) INFORMATION FOR SEQ ID NO: 1138:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 459 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1138:	
25	CTTGATAAGG GAAGATTTGC CAGCACCATT CGGGCCCATG ATACCAATTA TTTCGCCGCG	60
	TACTGGTATC GATAAGGAAA TGTTTTTAAG TACATGCTTA TTACCTAAAA ACAGATTTAA	120
	ATCTTTTGTT TCTAACAAAC GTTTATACCT CCTAATTAAA AGTTTAGGCT AACCTAATTA	180
30	ATTGTATAAT AAACTGAGAA TATTTATCAT GTCAAGTAAA TTCGTGATAT AATATAGACA	240
	ATGTATGTGA GGTGAAAGTA TGTTAACTGA AGAAAAAGAG GACTATTTAA AGGCAATCCT	300
	TACGAATAAT GGCGATAAAA ACTTTGTGAC AAATAAAATC TTATCTCAAT TTTTAAATAT	360
35	TAAGCCTCCA TCTGTAAGTG AAATGGTAGG ACGTCTTGAA AAAGCAGGCT aTGTTGAAAC	420
	AAAACCATAC AAAGGTGTTA GATTAACAGA GGATGGTTT	459
40	(2) INFORMATION FOR SEQ ID NO: 1139:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1139:	
	TAAATACTCT CGCCGGTTAT TTCGCTTCCT CTATACGGAT TGGCGAAAGA TACGGTGCAT	60
	CGGTTTCAAC TAGCAAACGC TCCATTGACA CATGCTTAGC AACTTCTTTA GGCTGTTTAG	120

	(2) INFORMATION FOR SEQ ID NO: 1140:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 214 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1140:	
	ACCTGAATGC CCATCAATGA CAGACTGGAT AAAGAAAATA TGGTACATAT aCACTATGGA	60
15	ATACTATGCA GCCAGAAAAA AATGAGGTCA TATCTTTTGT GGGACATAGA TGCAGCTGGA	120
	GGCCATTATA TTTAGTAAAC TAATGCAGGA ACAGAAAAAC AAATACTGCA TGTTCTCACA	180
•	GCAGGAGCTG AATGATGACA ATTCATGAAC ATAA	214
20	(2) INFORMATION FOR SEQ ID NO: 1141:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1141:	•
	GTTTCTAGTT GTTTATAGTT ATCGCATCTC TTGATGTAAA ATCTAAGATG TTTATGCATT	60
	TCTAGATGTT AATTCTTCGC TGCTTAAGAA TTATCTTGAT GGTAAATCTA GTTGTGCCAT	120
35 [^]	GCATTTTCTC ATGATGAATC TAAGGTGTTA ATTCATTGAT GTGTGCTGTT TCTTGnnGCT	180
•	TCATTATCTT GATGGTGAAT TTCGTTGTCT AATGCACTTT TTCAAATGA	229
	(2) INFORMATION FOR SEQ ID NO: 1142:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1142:	
50	TTATGAATCG TAAACACTAT TATGAAATTG CGAGAGTAGT ATGGACAATT AGAATGATGG	60
	TTTGAGATNA ATGAGTGTTA TTAACCAGTG CGTCATTTTC AAAATTAGAT GCCATTTGCT	120
	GTTTATAATA AGAAGATTTG ATAATTAACT ATGATAAGAA AAAATAATAA TCCCCTAAAT	180

	GGTAAATGTG TGAATAGGAA TATCGTTAAA CTAGTTGTGT TCATGCTAAT TTTAGTTGTA	300
	GCAGTAGCGG G	311
5	(2) INFORMATION FOR SEQ ID NO: 1143:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 403 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1143:	
	GATCATGCTG CTTATGAATT ATTAAAAGAG CAATTAGAAG ATGTGCTTGA TACATTAACT	60
	GATAGAGYAG AAAATGTATT ACGATTAAGA TTTGGTCTTG ATGACGGCAG AACAAGAACA	120
20	CTTGAAGAAG TTGGTAAAGT TTTCGGTGTT ACACGTGAAC GTATTCGACA AATTGAAGCA	180
-	AAAGCACTTA GAAAATTAAG ACATCCAAGT CGTAGTAAAC GTTTGAAAGA CTTTATGGAT	240
	TAATTTATAT CAATTTTAAT GATTGATACC AAGACATGAA TAAGCGCTTA TTTATTTTTA	300
25	GATTAAGATT TAACTTGAGT GAGGTTGGTA CATTGAATAA TGTTCAACCT CTTTTTTCAT	360
	AAAGGAGAAT AAAATGATTT CGTTAAATAA CCGATTAACG ACn	403
<i>30</i>	(2) INFORMATION FOR SEQ ID NO: 1144: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 612 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1144:	
40	nttttattg acgaatngat ttggatgcca gtggtttggt cctaaatctt gaatggtaat	60
	CGGTATTTTG AAGTTGTCAT GTGCTACACG GTAACCGATA CCnATAAGTA CGAGTGCGAT	120
	GACAATGGTT GTTACGAGCA AGATGTATTG TAACCATTGC TTGAACACAA CAAGTTGTAT	180
45	ATAAGGCTTC ATTGACGATA CCTCCAAACC AATACAGCTA AATTAATTAT CAAAAGTGCG	240
	ATGAASCTAA GATAGAAACT AGGGTGCAGT TCTAAAATGT AGTTGTTTAA AATAATTTCT	300
50	AACAATTGAT TTGTTACAAC TGCGAACGGT TGAATATTGA AAACACCATT TGCTATATGT	360
	TGTAAAAAAA TCGTAGGTAT TGTTAAACCA GATAACACCA GGATGACAAT AGCTAATATG	420
	ACTITACTAA TACTATICAA CAAGCCTGTT GTTAAAAGTT CGATGAGTAA TAACCACAGT	480

	AAGATATTCG GAATACTGAA CACAATCCAA ACTACACCAA CGATACTCCA TAACATAGTA	600
	TAAAACCATG Tn	612
5	(2) INFORMATION FOR SEQ ID NO: 1145:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1145:	
	GAATTAATTA CGCAATATCC GCATCTTAAA TCAGTAATCG AAAAATATGC TTTAAAATAA	60
	AAGTGATCAA TGAAGTGGTT TGAAGGTTGT NAATAAACCT TTGAGTCACT TCCATTTTTA	120
20	AAnGTATCCT GGATGGAACC AGAATAGATT TGAAGCTTCA GCGGTTTTTA ATGAAAATAG	180
	CCATTAAATG ATTTGGAAAC GGTAAGAGGG GGTATTTAAA ATG	223
	(2) INFORMATION FOR SEQ ID NO: 1146:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 598 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1146:	
35	CGCTACGGTT GTCACGTAGA GATTAAAGAC ATTCGTTTTA GCAGTCTTTT TTATTGAAGT	60
00	AGACAATGCA AGATTAAATG GTAGTGTCAT TTCATTTTAT TCAACTGCTA GTAATACAAT	120
	ACTCAGTGTT ATTTCTGAAG ACTGGTTGAT AATGAGACAT GCATATTTAC AAAACTGTGT	180
40	ATATTGTGTA TATTGTATAT ATACAGAAGT TGATAGGGGG ACGTTGATGA AAATAATTTT	240
	AAAAAACAAT AGTGATTTTC CGATTTATGA ACAGATTAAG CAACAAGTAA AACAAAATAT	300
	TTTAAAGGGA CATGTTGCTC CTGGAGAGCA TTTGCCGTCA ATGAGAGAAC TTGCCAAAGA	360
45	TCTTCAAGTA AGTTTGATTA CTACCAAACG TGCTTATGAA GATTTAGAGA AAGACGGTTT	420
	TGTTACAACA ATTAGAGGAA AAGGGACCTT TGTTAAGGAG CAAGATAGTT CTATTTTAAA	480
	AGAGAAACAA TTTTTTACCA TGAAAA11TG GGTTAAAGGA ATTGGGTTAA TTAAGCnCAA	540
<i>50</i>	GCCCATCCGA ATTGCCACTT GAGGGANTTC CAGGATATTT NACCGTCATT TATTGAGG	598
	(2) INFORMATION FOR SEQ ID NO: 1147:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1147:	
	CAAATCCAAG TGCAACAGCT TTATCAACCG CTAAAGCTAA ATCCGTATCA GCTTTTTCAG	60
10	CTTGAACTGG TTTGATTTGT AACTGTTCTG TTAGAAGTTG GCGTTCTTCT TTACTGACTG	120
	AATCAAAGTC TCCCACTGAG AAAAAAGGGA TAATTTGATG CTTCAATAAA ATCAAAGCAC	180
15	CTCTATCAAC GCCGCCCCAT TTACCTTCAT TACTTTTGGC CCAAATATCT TGCGGCAAGT	240
	GTCGATCAGA ACATAATAAA TTTATATGCA TATACACTCA ACCTTTCAAT GCTTGTGTGA	300
٠.	CTTTTTAAAA TCCCCTGGTT AAAGGAAAAT GAACNGGTTA CCAGCATTGT AGGCACCATT	360
20	TCAACACCAA CTTCGGCGGA TCnGGATTAC GCCTCCATCC	400
	(2) INFORMATION FOR SEQ ID NO: 1148:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1148:	
	TTTTATGGGT CGTATTTTT AAAGAACAGT CATCTCAATC AAAAGAATAG AATTATGATT	60
35	AAAATTGATG TEGTGTAATT AAAGTAAGAA ATEEKAAATT TCCTAGATAC TAGATAAATC	120
	GTTCAATATT TTATTAATAA GGAGGCCAAT GAYTGTGAAT TATCTTAAAC ATAAGTTTTA	180
	TAACTTGTTA ACTACAATGA TTGTTCTCTT TATTTTTGTA CTTTCTGGTG CGATTTTTT	240
40	AACATTTCTA GGGTTTGGTT TATATGGATT AAGTAGAATA CTTATTTATT TTAGGTTGGG	300
	TGACTTTACA TATAATAGAA GTATGTACGA TAACCTATNA TATTATGGCA GT	352
	(2) INFORMATION FOR SEQ ID NO: 1149:	
<i>45</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 916 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1149:	

	GGCAAGTGTC	GATCAGAACA	TAATAAATTT	ATATGCATAT	ACACTCAACC	TTTCAATGCT	120
	TGTGTGACTT	TTTTATAATC	CTCTTGTTTA	AAGAAAAATG	AACCTGTTAC	TAGCATTGTA	180
5	GCACCATTTT	CAACACAAAC	TTTCGCTGTA	TCGGTATTTA	CGCCTCCATC	AACTTCAATA	240
	TCAAAGTTTA	ATTGACGTTC	CATTTTAATA	GCATTAAGAC	CCGCTATTTT	TTCTACGCAT	300
10	TGATCAATAA	ATGATTGACC	ACCAAACCCT	GGGKTAACTG	TCATCACTAG	TACATAATCA	360
;	ACAATGTCTA	AAATAGGKTC	AATTTGTGAT	ATKGGKGTAC	CAGGATTAAT	TACTACACCA	420
	GCTTTTTTAT	CTAAATGTTT	AATCATTTGA	ATAGCACGAT	GAATATGAGG	CGTTGATTCG	480
. 15	ACATGAATTG	AAATCATATC	GGCACCATGT	TCTGCAAATG	ATGCAATATA	CTTTTCTGGA	54.0
	TTTTCAATCA	TCAAATGTAC	GTCTATAGGT	AATGTTGTGC	CTTTTCTTAC	TGCATCTAAT	600
	ATTGGTAAAC	CAATAGATAT	ATTAGGCACA	AATTGACCAT	CCATAACATC	AAAATGAACT	660
20	CCGTCGACGC	CTGCTTCTTC	AAGTCGTTTT	AATTCATGTT	GTAAATCCAA	AAAATCAACA	720
•	GATAATAATG	ATGGATATAG	TTTTGTCATT	TAATATCTAA	CCTTTCTATT	TGAAATTTCA	780
	TTAAATAGTT	GTAAATAATG	GTCGTATCTA	AATTGCGCAA	TATTCCCTAT	CTCTAATTGA	840
25	TGCnTAACCA	TTACCATTAG	GGTCCTTGGn	AAGGnTACCA	ATCCCAAACC	TTACCATGGT	900
	TCCCCCATAA	CGGTTT			•		916

(2) INFORMATION FOR SEQ ID NO: 1150:

30

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear

- 35 .

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1150:

AATTGGTTGT	GGCTTCATAA	TGTGCAGTTG	CTAGACTGAC	AACAACATCG	TTTTCTAAGC	60
CTACGATAAA	GACATAATCG	TTTTCGGTTT	TGTTGTTTTC	TAATGAGCGT	TTGATGATAC	120
GTTTATCTTC	AGTTAAAGAT	AAATTTAACT	TAGTATCGTA	AAGTTTAAGT	GCTTCGTTGT	180
AATGTGGATC	TTTGACAGAT	TGAATGGTTT	TAAATTCCAT	AAGAACACCT	CCCCAATTTA	240
AATAATATTA	TAGCATAATC	GCCTGCTGTA	AAAGACTGTT	CATAAACTTT	TAAATGGTAT	300
AAAAaACTGT	ACTATCTTAA	ATTAGACAGT	ACAGTAATCT	CATTTTGAAT	TCAGTGTGAT	360
AACTAAGCLT	TGGGACCTTT	AGATGCnTTC	ACAAAATGTG			400

50

(2) INFORMATION FOR SEQ ID NO: 1151:

(A) LENGTH: 156 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1151:	
10	CACCGTAGTT GCTACCGAAT ACCACCATGT CGCCAGGTTG TGCTAAGAAG TCCGGTGTAT	60
	TTTGGTATAC AGTTAGCTAA TCCGTCGAAG TTGTTAGCGA CGGnATATCT TTTGACCTAA	120
	ACCTTTTAGA GTAATCCAAA CAAAACTTTC CAACCA	156
15	(2) INFORMATION FOR SEQ ID NO: 1152:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1152:	
	TCAATATATT TATTTCTAA TGTTAGCATT AGACTGTCAA TTAACTTGCT AAGTTGTTCT	60
	TTTTTAGTAA TTAAATAACG CATATAATCA TCTAAATTTT TCATTTTTC ATCTAGCATT	120
30	AAAAGGTAGT GCTTGATATT ATTTCTACTG TTGCTCCAAA AACTGnTCAA ATATACGTCA	180
	CATAGTCATA CTACACCTTT ATATAGTTTA AATACCAATn GCATGACCTC GTG	23
	(2) INFORMATION FOR SEQ ID NO: 1153:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 339 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1153:	
45	TATATTANCT ATCGTTTAGT GAATCGTTTT TTTAAAGTAA AGAGAATTTC ATATATTACT	6
	GGTACAACTA CAAGTGTTAA TAAAGTTGAT GAAATTMAAC CACCAATAAC TGTAGCAGCT	12
	AATCCTTTCG AAATAAGAAT CGNGCTATCT TGACCAAATA ACANAGGAAC TAATGCACCA	18
50	ATTGTTGCAA TCGCCGTCAT TAATATCGGT CTAATTCTAG TACCGCCTGC TTCGATTAAT	24
	GCTTCTTTCA TCTCCATGCC CTGTTGCTCA TTATTAATAA CACGGTCTAT TAACACAATG	30
	GCATTTGTTA CTACGATnCC AATTCAACAT TAGCATACC	33

1856

(i) SEQUENCE CHARACTERISTICS:

5

(A) LENGTH: 817 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1154:	
10	GTCACCCGAG GAGATATHCA ACTATTACCA TCAAGATGHG AAAAATGGTG CCTTGGGCAA	60
	TTGGTTTTTT CATTTTAATC TTAATTATTA TATTGTTCTT TTTACTAAGA AACTTCAATT	120
15	CACCTGAAGC GCAAACTAAA ATATTAGTGA ATGCGATTGA GAATAATGAT AAACAAAAAG	180
	TAGCAACATT ATTAAGTACT AAAGATAATA AAGTAGATTC TGAAGAAGCA AAAGTATACA	240
	TTAACTATAT CAAAGATGAA GTTGGGCTTA AGCAATTTGT CAGCGACCTT AAAAATACGG	300
20	TACATAAATT GAATAAGAGT AAGACCAGCG TAGCTTCTTA TATTCAAACC AGATCTGGTC	360
	AAAATATATT ACGTGTAAGT AAAAATGGCA CACGTTATAT CTTTTTCGAT AATATGAGCT	420
	TTACTGCACC TACCAAGCAA CCAATTGTTA AACCGAAAGA AAAAACAAAA TATGAGTTTA	480
25	AATCTGGTGG TAAGAAAAAG ATGGTTATAG CTGAAGCAAA TAAAGTGACG CCAATAGGTA	540
	ATTTTATACC GGGGACATAT AGAATTCCAG CTATGAAATC AACTGAGAAC GGTGATTTTG	600
30	CAGGCCATTT AAAATTTGAT TTTAGACAAA GTAATTCTGA AACGGTAGAT GTTACTGAAG	660
••	ATTTTGAAGA AGCAAATATA TCTGTAACTT TAAAAGGCGA TACAAAATTA AATGATAGTT	720
	CTAAAAAGT AACTATAAAT GACCATGAAA TGGCATTTTC AAGTTCCAAA ACGTATGGTC	780
35	CATATCCACA AAATAAAGAT ATTACCATTT CCAGCTT	817
	(2) INFORMATION FOR SEQ ID NO: 1155:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1155:	
	ANAGAAAATC TACTCTTTTA TTTCACCGGT CCTTTCnTAT CTCTCATTTG GCATACTCCT	60
50	TTTTCCATAT TTTCCACTTT CAnTACAGTG AATTTACATG TAATTTTACA AATACAATAG	120
	GAGTGCACAA TGGAATATAA CACTTATCTT TATAAAATTA TTTTATATAT TGaCGCACTT	180
	AAAACAATCT ACAAATAAAA TTATTATTTT TAGTTTTCAA TGAATAATTC ATTCTTATCT	240
55		

	ATTTAAAAAT ACATTTAACT GC	322
	(2) INFORMATION FOR SEQ ID NO: 1156:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 777 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1156:	
15	GTTTCCAANG GAANGNGAAA AGCGTCAACC AATGTAACTA TTTAAAGTCA AAGTGTTTGA	60
	CCAAATTTGA CTTAATATGT AAAATAATGA GTAACAGTTA TTACAAGGAG GAAATATAGA	120
	TGAATTTAAT TCCTACAGTT ATTGAAACAA CAAACCGCGG TGAACGTGCA TATGATATAT	180
20	ACTCACGTTT ATTAAAAGAC CGTATTATTA TGTTAGGTTC ACAAATTGAT GACAACGTAG	240
	CAAATTCAAT CGTATCACAG TTATTATTCT TACAAGCGCA AGACTCAGAG AAAGATATTT	300
	ATTTATACAT TAATTCACCA GGTGGAAGTG TAACAGCTGG TTTTGCGATT TATGATACAA	360
25	TTCAACACAT TAAACCTGAT GTTCAAACAA TTTGTATCGG TATGGCTGCA TCAATGGGAT	420
	CATTCTTATT AGCAGCTGGT GCAAAAGGTA AACGTTTCGC GTTACCAAAT GCAGAAGTAA	480
	TGATTCACCA ACCATTAGGT GGTGCTCAAG GACAAGCAAC TGAAATCGAA ATTGCTGCAA	540
30	ATCACATTTT AAAAACACGT GAAAAATTAA ACCGCATTTT ATCAGAGCGT ACTGGTCAAA	600
	GTATTGAAAA AATACAAAAA gACACaGATC GTGaTAaCTT CTTAACTGCA GAAGAAGCTA	660
35	AAGAATATGG CTTAATTGAT GAAGTGATGG TACCTGAAAC AAAATAATTC AAAGTAAAGA	720
55	GTAGACTAAG CNGTCTGCNC TTTTTGTATG AGTAAACCAA GGTGTCAATA ATTTGTN	777
	(2) INFORMATION FOR SEQ ID NO: 1157:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1157:	
	TAATGTTGGT AAATGGGTTA AGGCTCAAGG TCGTATTGAA GAAGATACAT TTATTAGAGA	60
50	TTTAGTTATG ATGATGTCTG ATATTGAAGA GATTAAAAAA GCGACAAAAA AAGATMAGGC	120
	TGAAGAAGC GTGTAGAATT CCACTTGCAT ACTGC	155

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1158:	
10	GACTGGTAAA ATTTACTTGC AAGTAAAGCT AAAAGGTCAA ATAGATAAAG AACAACTTGT	60
	TTTTCAAAAT GACAAAAATG AAGAATTTCC TTTTGTTATA AAAGATGAAA AGGATGACAC	120
45	AATAGTAAGA ATTTTAATTG AACAGCATAT GGATAAAATC AATATGCATG TTAAAACGTT	180
15	GGCTGAAAAG AAAAATCTAG ATAACAAAGA AATGGTGTAT TCTATTCATT TTAAAGAGAA	240
	AAAAGTACAA CATGATGATG CAAAAGAAGT GCCTTCAAAA CATCAAAATC AAGAAAATAA	300
20	TCAAGATCAG CTTAAAAAAG ATATTGATGA CAAAAAAGAT AGTCAAAAAT CAGATACTAA	360
	GGGAAAGACG TACTAGCCTT TTTACTGGAA AAAGGGTTTA	400
	(2) INFORMATION FOR SEQ ID NO: 1159:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 347 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1159:	
35	GTTGGTACAG TGTTGAGTGG CTTTGAATAT CGAACACAAA AAGAAAAGTA TGACAATTTA	60
-	TATAAATTTT TCAAAGATAA TGAAGAGAAA TACCAATATA CAGGCTTTAC AAAAGAAGCA	120
	ATAAACAAGA CGCAAAATGT CGSATATAAA AATGAATATT TTTATATCAC TTACTCGTCA	180
40	AGAAGCTTAA AAGAATATCG TAAGTATTAC GAACCATTSA TTCATAAAAA TGATAAAGAA	240
	TTTAAAGAGG ATGGACCAGC CAGAAAGAGT GATTACGCGC TATCAGTCAG TACACATGTT	300
	AGTCCAGGAA TTTCTAGCAT CNGTGTGTGA ATGANGGGTA CTTTATN	347
45	(2) INFORMATION FOR SEQ ID NO: 1160:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

1859

	ATAGTTATTA ATTAGTAGAA TGAGGATATT TAAATATAAA GGATAGTGTT GAACTTATGG	60
_	ACATGAATTT CGATTATACA TGAACGGTGT TGTAGAACAA GCAAGGAATG AAATTGAATC	120
5	TGCGGGATAT GAGCAATTAA CTACTGCAGA AGATGTTGNA AAGTCCAAGA TGGNCACCTA	180
	GTTATGATCA TCTGTATGTG GTG	203
10	(2) INFORMATION FOR SEQ ID NO: 1161:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1161:	
20	AATTTTCCnT TTCCATTGAC ATAACAATAT TTAATGGGGC CCAGTTACAG GAAATATCAG	60
	TTTAATTTCG TCTTCAATAC CATAGTCATA ATATTGAGTT TCTTGTGTTG GAAAATTTCC	120
25	TACATAGTTA CTCATTTTAA TTTGTnCAAT GTTTGAATTC GGAGGCACTC TGTTAGCATA	180
	TCTTTAAACA TTAAATATGG ATA	203
	(2) INFORMATION FOR SEQ ID NO: 1162:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1162:	
40	GCCATTTTGT TGATAAAGGT ATACTAAAGG TTATCGTTTT GAAATTTTTA GTAACTAGGA	60
	TATGTTTCGT GTTATAGGAC CGGAATTTGT GGTATACGGT AAAATTTTAA TGCTATTGGA	120
	ATTTTTAAAA ATGGAAAAAC ATGGACATTn AAATTGGAAT TTCATAATAT GTCCTAATTG	180
45	GACTTAACTT GTTGGGAGTT CATTTTACTA TTTnTATGGT	220
	(2) INFORMATION FOR SEQ ID NO: 1163:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 409 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

	TTCACGTGCT TTGCCATCTT TTAAGAAAAA CACAGAAGGC TTTTGCATTT GATTGTAATT	60
	GGATGCCATA GAGTAATGAT ATGCACCAGT TGATAATATA GCAAGATAGT CTCCACGTTT	120
5	GACTGGATGA AGGTAATTTA GCGTCTTTAA TAATGATATC ACCAGACTCA CATAATTTTC	180
	CAGCTATAGT TACACTGECA TCTGCTTCTT CATTTCTATT AACAAGCAAT GCTTGATACT	240
10	TTGCGTCATA AAGTGCAGTT CTGATATGAT CACTCATACC GCCATCGATT GAAACATATT	300
.0	TATTALTCTC TGGAATTTCT TTAATGGETC CAACTTCATA TAAAGTAACG CCAGCLTCAC	360
	CTACAATTGA TCGTCCCGGT TCAATACCTA TTTCTGGTGC ATCTATACC	409
15	(2) INFORMATION FOR SEQ ID NO: 1164:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1164:	
25	CTAAATAATT GTTTAAATTT TTCTTTACTA TTTAGACTCT TTCGTTTGCC ATGACTTTGT	60
	TGACTTGCAA TGATATGAAC TTAATTTTTG CGAAAAAAGG AATCTAGATT CATATATTCG	120
30	GTAAATCTAC CTTCTTCATC TTTTTGAACT TGTAATTCTA GCAATTCACG TTGTATCAAA	180
	TTTTGAATAA CCATTGTAAT ATCACGTGGT TGCATAGTTG AGCCCTTCTG AAGCAATTCA	240
	ATTGAAGGCG TTTATTTGAG TTTCGAAGCA TAAATCAATT TAAGCAAAAG ACTAAATCTG	300
35	CTCATCTAAA CCTAAGTCAC GTAAGGTCTA ATAATCnCTC GTATCACTAC GGTCTGCTTT	360
	AATGATATTA nCCAGTnCGT GCCCCTTTAA ATTAACCANA	400
	(2) INFORMATION FOR SEQ ID NO: 1165:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(5) 101011011	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1165:	
50	TCGTGATTAT TATTAACATT TTTTAGTAAT TGATAAAAAT CTTTTCTCGC TTCTGTAGGG	60
	CTAGTGATAA TCATATAAAC CCTCCTTTGT TTTCTGTTAC GCTAATTATA GCGTACGCAC	120
	TTGAGTACGT CATATTACCA ACGAGTTCAT CGTATnCTTA ATACCTATAT GCTATCGTTC	186

	GGACACACTA CCGTnCCCTA CCGCTTAACC ATTTTCGGGC TTAAATATTT TnAAAATTTT	300
	GTGAGGATCC GCTTAAAAAA CCCCATA	327
5	(2) INFORMATION FOR SEQ ID NO: 1166:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1166:	
	TTAGGATTTC AAAAATATGT CAGGTTTTCT AACATAAAGC TTAAAACATT GATATAACTG	60
	CGATTTCGAC TTCTAAAACG aCATTAAACA ATCTACAGCT AAAATATTTT TTCAATTTTT	120
20	AAAAATAATC nGATAAATCT CCGCAAAA	148
	(2) INFORMATION FOR SEQ ID NO: 1167:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1167:	
	NAAGGTTATC GCTCGTAAAG ATGTTGTTGA AGAAGTATTT GACGACAGAG ATGAAGTGGA	60
35	TTTAAGTACA GCGCTTGTTA AAACCCTGCA TATGAAATTG GTGTATTACG AGAAGAGTAC	120
	ACTAAAGTTT TGGTCGTGTA GGTCTCAGCA GCGAACAGCA GTATGCACGT CTnCGTGTGC	180
	TGACGTGAAT TTTATTTGAG GATTATAGAC AAGAGAGACA ACTTACTGGA TTTTGCCCTG	240
40	TTG	243
	(2) INFORMATION FOR SEQ ID NO: 1168:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1168:	
	TTATATACTA CTATAAAGTA ATCCAACTCT CAAGAAGGTA AATGGGCAAT CAAAAGCTAA	60

	CTACGATATG ACGCACAAAT GTTTAGGGTA GGTGTTGACA TGTGTACAAA AACCAGCAGA	180
	AAATGGTTGT ATTCTTAGGG AAGCATTCAT CCTGTTTGTT TATGGATTCA TGTTACGTTA	240
5	CGCAATATGT TTTTATGTAG CACAGCGAAG TTACAAGTTT ATACGCTATA TATCCTTTGA	300
	TnATAAGCAG ATGAAAnCGG C	321
10	(2) INFORMATION FOR SEQ ID NO: 1169:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 191 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1169:	
20	TCTACATATA AAATTACTCT AAAAATATGT ATAGTCATAA ATTGTTGGTT GATTTAATTA	60
	AAAGTATGGA AATTAAGGGG CTCTTATGTA TATAAAAAAA TGAATTATGA TAAAATGTAA	120
	GANAATATTT AGGGTCGATT GGAGAGATAC CAGTGGTACC AATTAGAAGA CGACAGTTTA	180
25	ATGTTACCAT A	191
	(2) INFORMATION FOR SEQ ID NO: 1170:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1170:	
	AATGTGGCAA GGATGTGTGA TATGACTACA CATTTAATAT CATCCTACAT AATAATTTTG	60
40	CGCGCCAAAT TATCACACAT ACCACACCTA CGATAACAAC CAGCAAATAA GGAGATAGCT	120
	ACACGTATTT ATCGTCCAAC GCACTACTAT ATGTTGTTGn ATGGGCACAA GTTACAAGTG	180
	CTGCGCGATA NCAAAAGGTA TACCCCTAAA ACGTCCCAAA ANAATCGGTT GCCCTCTAAA	240
45	TTGTTTGTGT GCCATGATTA GTAAGCTCCT ATGTTAGAAA CAAATTTTTA ATATGTATAT	300
	TAG	303
50	(2) INFORMATION FOR SEQ ID NO: 1171:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

_	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1171:	
5	AAAAAGGTGA GAAGACAATA ACGNACGCCA ACACTAAAAA ATCCATTAAC TGGAGAAATT	60
	ATTAGTAAAG GTGAATCGAA AGAAGAWATC ACAAAAGATC CAGTTAATGA ATTAACAGAA	120
10	TTCGGTGGCG AGAAAATACC GCAAGECATA AAGATATCTT TGATCCAAAC TTACCAACAG	180
	ATCAAACGGA AAAAGTACCA GGTAAACCAG GAATCAAGAA TCCAGACACA GGAAAAGTGA	240
	TCGAAGAGCC AGTGGATGAT GTGATTAAAC ACGGACCAAA AACGGGTACA CCAGAAACA	299
15	(2) INFORMATION FOR SEQ ID NO: 1172:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 821 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1172:	
25	CCATAGCACC ATACCCATAA CCAACCCGGA TCCACTAACA AATAAGTAAT AATTMACACG	60
	TAAAGAAGTA AATAGTTTGT TTAGTTTTTT ATCAACATTA TCAATGTTTT CCTCGACAGA	120
30	CACTGGAATT TTAACGATAG CTGTACCATT TGTAATTGAG TAGTTCGTTA TTTCACCCAT	180
	ACTACTATTT GGTAAAATTG TTAATTCTCC TGAAATTGTA TTGATTCGTG TTGAACGAAG	240
	TCCAATTGAT TTAACTGTTC CCTCTGCTAC AGTTGTACCA CCGTTATTTA TCTTAACATA	300
35	ATCACCTACA TCAAATTGGC TTTCAAATAT AATAAAGAAT CCTGTAALTA CGTCTTTAAC	360
	TATAGTTTGA GCACCAAAAC CTACTGCTAA GCCTACGACA CCAGCACTGG CAATTACCCC	420
	TTCAACACTA ATGCCAAATT TACTTAAAAT CGTCGTAATA ACTATAAACC AAACGATATA	480
40	CTTCACTACA TTTTGAACAA GAGATATTAA AGTTTTAGAG CGCTTTTTGT TACTCTTTTT	540
	ACTITIATIT TGAATCTTAA ATCCCTGTTC AATCATTTTA TTCAGTATTT TAATAACTAT	600
45	GAGGGCTACG ATAATATAAA TAACAATCAT AGCGATTTTA GTTGCAATGT TTTCATATGT	660
	TTCTATTTTT GTTAATGGCT CAAATAGAGA TGAAATAATA TTCATGACTT GATTCATGAT	720
-	AAGCGTTACT CCCTTCTATA TGATATATCA ATATTGLATT CATATTTLGA TATACTTCCC	780
50	AACCTACGAA AGTCTCAATA TATCTAGAAT CAAATGGTCA C	821
	(2) INFORMATION FOR SEQ ID NO: 1173:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 318 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1173:	
	CCCGAAATTA AAATAATAAT GTATGAATTT TTAAATATGA TTTAAACGTT TTCAGTTTTT	60
10	ATGAAAACGC ATGCATTTTA CAAATAAAAA TGGTACGATG GCACTGGTTA AAACGTTTTA	120
. 3	CTAAAAACAA ATCATGAGGT GTATAACATG GCTGTCTCTT GATCAGATCT TGATCCCCTG	180
•	CGCCATCAGA TCCTTGGCGG CAAGAAAGCC ATCCAGTTTA CTTTGCAGGG CTTCCCAACC	240
15	TTCCCAGAGG nCGCCCCAGC TGGnCAATTC CGGTTCGCTT GCTGTCCATA AAACCGCCCA	300
	GTCTAGCTAT CGCCATGT	318
	(2) INFORMATION FOR SEQ ID NO: 1174:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1174:	
30	GTTTTAAAGC GGTTATAAAG GTAAATATGC AATATTATAA ATATCTTCTT CAGAACTAAC	60
	CGAATCTCTT AAACTCATCT GTTTAGATAG CGTTTCAAAT TGATAAGTTT TAATTTTAAC	120
	CGTTACAGTT TTAGCTGACT GCTGTAATTT ATTTGACGTG CAGCTGTTTT CCTGACAATn	180
<i>"35</i>	CCATACTGTC TTAAAnCTCT GCATCA	206
	(2) INFORMATION FOR SEQ ID NO: 1175:	•
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 653 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1175:	
	TCTGCATCAT GATATTTTAC ATCATCACTT ATAAGAACGT CACCTACATT TAAACTTTCA	60
50	TCTAAAGCTC CAGCAGAACC TGTATTAATA ATGACGTCCG GTTTAAACTT ATTAATTAAT	120
	AATGTCGTAG AAATTGCAGC ATTAACTTTT CCAATGCCAC TTTGGGTAAT CACTACTTCT	180
	CTATCTTTTA AAATGCCAGT ATAAAATTTA ACATGTGCAA CTGAAATTTC GCTTAATTGT	240
55		

	TTTTGATTCA CCTCTTTTAA AAAATCCTAG CATTTGTTAT TTTATCACAT TTTAATCACT	360
	ACAACGACAA GTATCATGAT TTTCATTACT GTATAAAACT TTTGCTTTAT TTTTATAAAA	420
5	AGCTCTTTCA ATAACTTGGT ATCATAAATA ATTATTTTTG AACTCATAAC AGTGAATTCG	480
	ATGCTTCTAA TTTGTCTATT TTTCAAAAAC TAATCATATC AATTACATCA ACCAATCGTG	540
10	TCAAGAAACT TTATTAAATA ACAGGAAAAT GATATGTTTA AAATAATAAT GATGAAATAA	600
,,	GAGGATTTTA CAATGGCTGA AAATAATCAA AATAGTCTCG TAACAAAGAT AGC	653
	(2) INFORMATION FOR SEQ ID NO: 1176:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20 .		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1176:	
	ACATGGCCGT THGHATCAAG ATCGTCAACG ATTGATTGGT ACAATTGAAG TGCCTATGAC	60
25	ATTGGCAACC GTTGGCGGTG GTACAAAAGT ATTACCAATT TGCTAAAGCT TCATTAGAGC	120
	TACTAAATGT AGAGTCAGCA CAAGAATTAG GTCATGTAGT TGCTGCCGTT GGTTTAGCGC	180
3 <i>0</i>	AAAACTTTGC AGCATGTCGC GCGCTTGTGT CAGAAGGTAT TCAACAAGGT CATATGAGTT	240
	TACAATATAA ATCATTAGCT ATCGTTGTAG GGGCAAAAGG TGATGAAATT GCTAAAGLAG	300
	tGAAGCTTGA AAAAAGAACC CCGTGCAAAT ACACAAGCAG CGGAACATAT TTTACAAGAA	360
35	ATTAGACACA ATAGTAAAGG CGALAGCGAT TAAAGAAAGT TAAGTCAGTC	410
	(2) INFORMATION FOR SEQ ID NO: 1177:	
40 ·	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1177:	
	CATCAAGATA ACTACGGTTA TAATCCAAAC GACCCAACAT CATATAACTA TACTTACACT	60
50	ATTGATGGCA CAAGGTAACT ACCATTACAC ATGGGAAAGG TAACTNGCAT CCAAGTCAAT	120
	TAAACCAAGA TAATGGCTAC TACAGC	146
	(2) INFORMATION FOR CEO ID NO. 1170.	

5	(A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1178:	
10	TGTTCCTGGT GGAACTTTGG TTTCTTAATG TCATTCCAAA TTGCTGTATA TTCATTCATT	60
	GGTATTGAAC TTATAGGTGT ACTGCTGGTG AACGAAAGAT CTGAAAAAAC CTTACCGAAG	120
	CAATTAATAA TGTACTATCC GTATTTATAT CTATATCGTG GTNATATAAT ATGTCATCAA	180
15	CTGGATnTAC GTCAATAGAC CTTCGTAACC TTAATATCGC GACAT	225
	(2) INFORMATION FOR SEQ ID NO: 1179:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1179:	
	TGTACGCATA TGGTATCACT TGATGACCAA TTCACTTTGT CGAGAATAAC GTTATTTAAA	60
30	GACATTGATT TAAAGAATTG GTATTnCGTT AATTGTATTA GACTTTTCAC AGAAGTAGCG	120
	ACAACAATGA TTTCATCGTA ACACGTGCGC ATATNAAGCA TGGGAAAAGA CATGGNCTAT	180
	TGACCTGGCC TTTTGTGCAC TCGTACGATT GGTCAAACGT GGCTATATTG AAAGTTTGAA	240
35	ACAAGATGCG ACGGACACAC ATGCACGGGT GGGGATAGAT CTTGAGTCTT ATTGAGACGC	300
	TGTGACTGTG GCTGACATC	319
	(2) INFORMATION FOR SEQ ID NO: 1180:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 654 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1180:	
50	TTTTATCTTG GTTTTGAACT AGATATGTGT AGTCAGGTAT AACATAATCA ATCCCTAATA	60
	AGTTATCATC AGGGAATTTG ATACCTGCAT CGATAATGAC AATTTCGTCT TTATACTCAA	120
	CTGCATAAGT ATTTTTACCG ATTTCACCTA GACCTCCAAG TGCATATACA CCTACTTCAT	180
55		

	TTCGTAATCT AAATGTGCGC CCTCTAATTT AGTGATAAAT TCGATATTAA AATTACGATC	300
	TTTCAAGTAA CGACGTACTT GTTCTTCTGT TTGAGCTTCA ACATAAAGTG ATTGTGTATT	360
5	TTCACGCACA ATTACCTCGT CTCTGTTATG TTGATAAAAA ACTTTAAATA CTGCCATGTT	420
	AAAAATTCCT CCTAAGAATG TTTGTYTAAT TTATTGTTAA CCCTAGLAAA ATCGTATTGG	480
10	AGTATATATC GATAAATTCA TTCCAATCAT CTCTATAATG TAACTTAATA ACGATTTGGT	540
10	TAATAACTAG GTTCATCATG TCGTTCATTT TAAAAAATTA GTGAAATAAC ACTAAAATTT	600
	CAGTTAAATC TTATTTTACA TGATGAATGA TAATAAATAA AGCAGTTTAT CTCA	654
15	(2) INFORMATION FOR SEQ ID NO: 1181: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1181:	
25	CGGGTATATT ATAGACAACG TTTAAGGACT TCTTTTTAAC TAACTTGTTA AATGTTGCTG	60
	TATTTTGTA TTCAACACTG TAATATAGTT CTTCTGACGC TGATGCATTA CTCATTGTAA	120
	TAGATATTAA AAGACTCAAT ATTATTAAAC TAATAATAGC GCGCTTTATG ATTTTCATAT	180
30	TCTAATCTCA AATGAATTCC AGAACTTTAT ATGGTTCAGG TGCGACAACA T	231
	(2) INFORMATION FOR SEQ ID NO: 1182:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1182:	
	TAAGTTTATT AAGCTCTTGT CCGTTAGCAA TCACGCTACC GCTAGAAATT TGGTCAATTG	60
45	AACTTAGTAC ATTTAATAAG GTTGTCTTAC CTGATCCAGA AGGCCCCATA ATCGCACGAA	120
	TTCGCCTTTT TGTATGTCAA GTAATATCTT AGGCTGAATG GTGCTTTACG AGTTTGAACA	180
50	GTGCCGAAAA CGCAAGCCCC TTGATATCTT AAATGTGGAG ACTACAACnC ATCAGTGnCA	240
50	CGGGA	245
	(2) INFORMATION FOR SEQ ID NO: 1183:	

5	(A) LENGTH: 490 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1183:	
10	AGGTAAAGAT GATGGTGTAG AAGTTTATGT GCATTGCGAA GATCATGGCA TTGTATTTAA	60
	TGCAAGTCTA CCTTTGTACA AAGATGCCAT CCATCAAAAA GGATCAATGC GTAGTAATGA	120
	CAACGGTGAT GATATGAGTA TGATGGTGGG TACAGTGCTG AGTGGCTTTG AATATCGAGC	180
15	GCAAAAAGAA AAGTATGATA ATTTATATAA ATTTTTAAAA GAAAATGAAA AGCAATATCA	240
	ATATACAGGT TTTACTAAAG AAGCAATTAA CAAGACGCAA AACGTCGGGT ATCAAAATGA	300
	ATATTTTAT ATTACATATT TATCAAGAAA TTTAAAAGAA TATAGAAAAT ATTACGAACC	360
20	ATTGATACAT AArcAATGAT AAAGAGTTLA AAGAAGGTAT GCAACGAGCT AGAANAGAGC	420
	TAAACTATHC TGCTAATACA AATACTGTAG CAACGTTGTT TAGTACGAAT GATGAAAGGA	480
25	ATAGAAAAGA	490
25	(2) INFORMATION FOR SEQ ID NO: 1184:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1184:	
	CTCGCATTTT AATAAATCAT ACTCTTCTTT TCTTGCATAC GAATTAGAAT AACTCGCGAG	60
	ACCTATAAGT CTCTTTCCTC ACTAGATAGT TTATACTTTT GGTCnGTTGA AGTCAATAAT	120
40	TITATCTAAA GCTATAAAAA ATCTTTTGAT AGC	153
	(2) INFORMATION FOR SEQ ID NO: 1185:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1185:	
	TCATTTATAT ACTGTATCAC GCTATCTTTA GTATGTGTGC ATmATCATTC GTTAGTGCGT	60
55		

	AATGAACGTT ATATTTTAAT TCATGATTTA CTAAGACCAA CAAT	. 164
	(2) INFORMATION FOR SEQ ID NO: 1186:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(5) 10102001. 1111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1186:	
15	CACAAGTGAC GTCATATTAT AAAAGTCACT CGGTTTGCGA TACGTTCTGT CTAAGAAATA	60
	GCGACGTGCA ATTTCATATT TTmTATAAAC ATCCGTTGAA AAAGGACATA AAACCATGCG	120
	TTGAACCAGG GTCTATACTT TCT	143
20	(2) INFORMATION FOR SEQ ID NO: 1187:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(2) 10102011 111021	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1187:	
30	CGTACAAGTT AAAACGTTTA TACGATTACG AAAAACCACC GAAGAGTGAG AAAGATCCAA	60
	TEGTTETATA TECAGTAAGT GCAGGATACA AATGGTTCTT TECTTATCCA GATGAACATA	120
	TAGAGACTGT TAATACATTA NCAATCCCTA AAGATGTCTG TTTATTAGCT CAGCATGANC	180
35	ATACAGTTCG GTCACATAGT GTCAATTCA	209
	(2) INFORMATION FOR SEQ ID NO: 1188:	203
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1188:	
	TTGGAATCGC TGTCGACGGA TAGCAACCTG GATTGTAAAA ATAATGTTGG CTTTAAAAAT	60
50	ACCGTGGCAA TATTAAATGA ATAATCGCTG CTGAATATAC ACCCAATGCA CATTGAACTA	120
	ACATAAnCCC ATTTGACTCA TCTACGCCCA CTATTGGCTT TATAGTCACT GAACTAAGCT	180

TAT 243 (2) INFORMATION FOR SEQ ID NO: 1189: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 527 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 10 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1189: ACCAGGCAT TACCATACCA GCACTCATAC CACCAATCAC KCTCGATAAC ATCAATACCG 60 15 VAAAATTGTG GCCAACTGCA AACATAAATT CTGACACTGA AAACAAAATT AATCCTATAC 120 Z ATATAATTAA TTTCTTCCCT AATTTGTCAG CTAGCGTACC ACCAAACGGC GATATAATCA 180 TTGAGATAA CGCAAAAGCA GCAACTAGTA ATCCTAAATC ACTACCAGTT AATCCCAAAT 240 1 20 TTTTAAATA AACAGGCAAG ACTGGTATTA CTAAACCGaT ACCTAAAAAA ATCAAGAAAA 300 CATTAAAATA TAAGACAAAA ATCTGTTTAT TCATATGCTC ACCTCTTTTT TCTCCATGTC 360 ٦ 25 ATTCTTAAAG CTGTTATTCT TCTTTTCCAC GACAGATTGC AATTCATGCT AAATATTCGT 420 NAAAAGTTTC TATATTGTAT TACAACATTG CTACATTTGA CAATATTTTL TCTTTGTAAT 480 7 PATCACTATH TTCCATTTAA TTGTATAATT AATGACATAT THNAATA 527 7 30 (2) INFORMATION FOR SEQ ID NO: 1190: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 889 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 35 (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1190: 40 AAACGTGGC AGTAATTCAG TGTATGTTCA ATATGATGAT ATTATGTTTT TTGAATCATC 60 7 VACAAAATCT CACAGACTCA TTGCCCATTT AGATAACCGT CAAATTGAAT TTTATGGTAA 120 PTTAAAAGAA CTGAGTCAAT TAGATGATCG TTTCTTTAGA TGTCATAATA GCTTTGTCGT 180 1 45 CAATCGCCAT AATATTGAAT CTATAGATTC GAAAGAGCGA ATTGTCTATT TTAAAAATAA 240 (AGAACACTGC TATGCATCGG TGaGAAACGT TAAAAAAATA TAATAAGATA ATAAAGTCAG 300 50 ITAACGGCGT ATTCAATTGT AAATCTTGTT GGATTTTAAC AAGATAACTA GCAAATGCAC 360 7 CGTATAGCTG GCTTTTTAAT TTTATTAACA AAATTAAATA TGACGCGTGA ATTAAAAAAT 420

	CTCTACAATC CTATGGCGCA ATTTTTAACA AAATATACTA AATTTGAAAT TGACAGTTTC	540
	CATAAATAAA ATGCTATAAT TTCCTACTCC GTGAATCTTA TTTTGTTTTA AAAAACAGTG	600
5	TAGCACAAGm TTCAACTTGT TTCCTACACT GTTTTATAAA TGAATTATTT AAAATGCTTG	660
	TTCAACCTCT TGTAATGTTG GCAAACTATT AATAGCACCA TACTTCGTTG TCACTATTGC	720
	AGCAACGCGA TTGCTAAACG CTAAAATTTC CTCACCTTCA TTTTCAAATA ACTGAGTTAA	780
10	ATTTAACACA TCGGTTGCTA AAATCCTGCT AATAACTGCA CCAATAAATG CATCCCCTGC	840
	CCCAGTTGTA TCAACAGGTT TTACCTTATA GCCACTATGA TAATGATTA	889
15	(2) INFORMATION FOR SEQ ID NO: 1191:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1191:	
25	AGTTAAAGGC GTTGAATTAA TGGCCTTCCC ACACATGACA TATAAACAAG CGTGCGCCTA	60
	TGGTCTGATA ACCAGATACA CGTTTGAATG GATTAATTGC GTTCTCAATT AGGCGTGATA	120
	TGGCTTTAAA GATTTHAGTC TGTTGAAATG ATGGTGAATT AAAGCATTGC GCTAAAGGTG	180
30	CACTGACAAT ATCTCGTAAA GATATGGTGC TTTAACAGAT TTGTAACATC TATGGTCTAA	240
	ngatacgggg ttaa	254
35	(2) INFORMATION FOR SEQ ID NO: 1192:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 189 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1192:	
45	GGCTCATAAG TTACACCTAA TGCATCTTCA TCTGGAAGCT GTGGTTTATC ATCTTCTAAA	60
	TCAGCAGTTG GCGTTTTTTC ATATAATTCC TTTGGCGCAC CAAGATACGC TAATAATTGA	120
	GCTGTGTATn CTAGGCATCC ATACCGTATT CGTTAAACCA GTATATTTCA GCTGAATGAT	180
50	CTGTCCTAC	189
	(a) INFORMATION FOR SEC ID NO. 1193.	

5	(A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1193:	
10	TTGATATTGA TCGATGACCG GTGATGTGAA ACTGAAACTG ACCAATGAAT GAAAAAATGG	60
	GCAATGTTTT TGACAACAAT GGTCATTTAC CAAATAAAAA TATTGnCACC ATTAATACCT	120
	GNCAAACGTG TTTGTTCCTA AACCTAAAAT GATAAATCCT ATTGAGATTA TGGACTTGGT	180
15	AAGCTGCAAT CTTTTTAATA TCTTTATAAG CAATG	215
	(2) INFORMATION FOR SEQ ID NO: 1194:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1194:	
	AGAATTTGCN ACTGGTTTAC CAACGCATCT ATGTTCGGTC GCTATACCGC ATACAGATGT	60
30	CGAACATATT AACCATAGAA CGTAGGTGTG GTGTTCTAGA AAAAGAAGTG CCGTTATTGA	120
	AATGGGACAC TTGATCAACA GCCGAGTGAA ATCGTTTT	158
	(2) INFORMATION FOR SEQ ID NO: 1195:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1195:	
45	ACTGATTGCC GTGTCTGTGG TTGATCATTG ACTAATTGTT GGCCATCATT GGnTTCTTGG	60
	TCTAATAGTC CTCTTGCTCC TGCGTCGTAA CATTGATGCC AATCATGCAC CACAGCCTTT	120
	CGGTTCATCA TAACATTTCT GCCAATGTCT CTACATGACA CGGGCTCATA TTTCTTTCTG	180
<i>50</i> .	(2) INFORMATION FOR SEQ ID NO: 1196:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(0)	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1196:	-
	GTTAAAGCGA ATTATTCACA ATATAAAAAA TCATCTGATC AAGTCGTATT AGAATTAGGT	60
5	ACAAATGGCG ACTTTACTGT CAAACAGCTC GACGATTTAC TTAATCAATT TGGaAAAGCC	120
	AAGATTTATT TAGTTAATAC ACGTGTTCCA AGAATTTmTG AGGGCAAATG TAAATCGATT	180
		240
10	ATTAGCTGAC GCGGGCGAAA CGGAAGTCCC AATGGTCACA TTAATTGGAT TGGGTATTAG	
	GCGCTTCACA AGGGACCTTG GTGGAATATT TTTG	274
15	(2) INFORMATION FOR SEQ ID NO: 1197:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1197:	
	ACGTAACCTA TATTCATCTC TGTTCCCAAT AATAATAACA ATACATAACT GATATTAGCT	60
25	GTCTTTCATC TCTAATTAAT ATGCGTCATG AGCTAATATC GGTTATTTTT TTGTGTCAAA	120
	naattittat titatetete categeatta attg	154
30	(2) INFORMATION FOR SEQ ID NO: 1198:	137
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 249 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1198:	
	AATCCTCACC CGTAATAAAC TCGTTTTGAA TGCGTTGTTC GAACTCACGG TATATTAAAG	60
	CAATATCCTC TAACTTATTT TTAGTTCGAG TTTGCATATT TTTATCAGCA ATAAAGTGTT	120
45	CTAAATGTTC AGGCGTTACT GCATATTTT TAAAATCTTG AATTTGTTCT GTTAATTTTT	180
	CACTAAACCC ATAATATTTT GCTTGTGATT GATAAAGTTT TAAATACTTT TGTTGTTCnT	240
	GAACAATGn	245
50	(2) INFORMATION FOR SEQ ID NO: 1199:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1199:	
	• ·	60
	TTGGTAAAAA TCGACATCAA ATACTAAATC TGATCCATCT GAATCCCATG TTTAAAACCG	60
10	AACTTGTGCA TTAATTGTAA AGTTCAAACT CTTCATCTTC ATAGATCGCG ATGCGTCTTT	120
	TAATTCTTTA GGTGATACTT TGTAGATCTA TAACAAAATT AnCTA	165
	(2) INFORMATION FOR SEQ ID NO: 1200:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 236 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1200:	
	TTATTAGCGA TTAAAAATAT GTCCTTTTTT AATAAAGGAG ATATATGTTT AATTGGATGT	60
25	CAACATCGGA GTCATTGGCG AAAAATAGGG CTGCGGTCGA TGGAGTTCAA AACTATTTTA	120
	ATGCATTACA TGTTGTGAGT NAAGAGCAGG CGTACTTTTC TTTTCAAGGA TGTGACATAT	180
30	CACAGAGCGT ACAATAGAAA CTCAGATACC ATTACATGGA nAGTCCGCGT CCAATG	236
•••	(2) INFORMATION FOR SEQ ID NO: 1201:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1201:	
	TAATGCTAAA CAGTATTATG GAGATAATGG CTTAGTTCAA ATTTCTGATG nAAGTCAACA	60
45	CTTCTAAAAT TTGTAAATGA AGCATTAGAC AATAACGAAC AATCAGTTGA AGATTACAAA	120
.•	AATGGTAAAG GCAAAGCTAT GGGCTT	146
	(2) INFORMATION FOR SEQ ID NO: 1202:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 385 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1202:	
	ATTGATGATA GTATTGATGG TAATACCATA AACATACAGC ATTATCACAA GTAAAAGTAA	60
5	GCCTAAATGT CCATAAAATC TACTTGTCAC AATATATGTC GGTATTATCG TAACGGGAAG	120
	TCATTTCGTA CTTGATTAAA CTTTTGTGTA ATTGCTTTAG TACCTTCTAA ATACCTGGTT	180
	GATGAGACCA CATACTGATA CCACCATAAC CATAAACAAA AGGTACACCA GAATTGGGCA	240
10	TACTTCTTAT TCCATCCAAA CCTCCGTAAC CTAATTGCTA CGGGTAATAT TCCAGCACAC	300
	TAATAGTATT GATGTAATTA ACTGAACGGC CGCTnGATAA TAAGTCTTAC AGTCTTAAAC	360
15	GTCCATGCGC ATCnTnACCC ATTCA	385
	(2) INFORMATION FOR SEQ ID NO: 1203:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 580 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1203:	
	ACATTGAACG AGTACAGAAA ACTTATTG1A AATAAAGGCT GTTAAAGATA AAGAAGAAGA	60
30	TACTTACAGA GGTAAGTATT TTGCGGAAGA AAGAAAAAAC GAAAAATTGG AAAAAGAAAA	120
••	TATAAAACTA AAAAACAAAA TTTATGAATT ACAAAACGAA GAAGATAACG AGGAGGACGA	180
	AGAAGACAAG GAGGACGAGA ACGATGTATT ACAAAATTGG TGAGATAAAA AACAAAATTA	240
35	TAAGCTTTAA CGGGTTTGAA TTTAAAGTGT CTGTGATGAA GAGACATGAC GGTATCAGTA	300
	TACAAATCAA GGATATGAAT AATGTTCCAC TTAAATCGTT TCATGTCATA GATTTAAGCG	360
	AACTATATAT TGCGACGGAT GCAATGCGTG AYGTTATAAA CGAATGGATT GAAAATAACA	420
40	CAGATGAACA GGACAAACTA ATTAACTTAG TCATGAAATG GTAGGAGGTA TGARAAGTGA	480
	ATGATTTACA AGAGAGAGA TTAGAAACAT TCGAACAAGA CGACCGATTC AAAGTAACTG	540
	ATCTAGACAG TGCTAACTGG GTTTTTTnAG AAACTnGGAT	580
45	(2) INFORMATION FOR SEQ ID NO: 1204:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ATCGTATGGT TGAGGCGAAT TTAACTGAAA AATTAGACAA CGAATCTTGA TGAAAAGAnA	60
	ATGATTGGCT AAAATAGCAG CTAATCAAAT CAACGATAAT GAATGCTTAT TTATCGTGCT	120
5	GGTTCATCTA CATTGGAGC	139
	(2) INFORMATION FOR SEQ ID NO: 1205:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1205:	
	AGGAGGATAT CAGACTTACA rACTATTCTT TATCATACTG rAATTCAAAT AGACACCTTA	60
20	ATTGAAGAAG GCGTTGACGC GCTACTTTTC rAAACGTATT ACGACCTnGG AAGNGTTAAC	120
	AAATGTCATT TCCACGGAAC GGGGAAAGGA AATACGGCGT TGCCAATCCA TTGCTCCAAT	180
	TGAACCGGTT GCAAACACAA ATTGACTTGG TTGAAGGGGC AGGCATGCA	229
25	(2) INFORMATION FOR SEQ ID NO: 1206:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1206:	
	TCGACAAGTT TTTAACAGTT CGTTATTATA TGAATGTAAG TAAAAATTTC TTAGCTACAA	60
	CTTACATATT ATAAATGCAT AAATTAAACA AAAAGGGGCG AAAAAAGTTG ACTCATTTAT	120
40	CAGATTTAGA TATTGCGAAT CAATCAACAC TACAACCAAT TAAGGATATT GCTGCATCAG	180
	TAGGTATTTC AGAGGATGCA TTAGAACCTT ATGGTCATTA CAAAGCTAAA ATCGACATTA	240
	ATTAAAATTA CGCCAAGAGA AAACAAAGGG AAGTTGTTTT AGTTAACTGC GATGAGCCCA	300
45	ACACCAGCTG GTGAAGGLAA tCmACGGTTA CAGTTGGtTT AGCTGaTGcA TTCCmTGaGT	360
	TaATGAAAAC GTTATGGTTG ccTTaGGGGG CCTGCCTTT	399
	(2) INFORMATION FOR SEQ ID NO: 1207:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 138 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1207:	
	ATAAACAATA CGATTTGTAT GCTACTTGTC TGAAGACAAC ATAAAACAAT ATGTTAACTG	60
5	ATATTGAGGA TATGGGCTTT CAAAATCCAn TTCAAAAAAG GTTATGTTGA AATATGACGC	120
	GGTTGTTGAA AGAGACCC	138
	(2) INFORMATION FOR SEQ ID NO: 1208:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 655 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1208:	
20	AGTCGCCTAA CTTTTATTAT CAGTCCAATC AGTTTCATCA AGTATAAATG TTATTGCTTA	60
	TTTTTGTATT CTTGGCGTAT TTTTTGTTCT TCTGCATAGC GCTCTGGATT TTTCTTATAA	120
	AAATCTTGGT GATAGTCTTC GGCTTTGTAA AATTGTGACG CTGGTArTAT TTTTGTTGCA	180
25	ATTGCCTTAT CAGCATTAAT CGTATTTTTA AGCTGCTCGA TATAAGTCTC AGCGAGTTCT	240
	TTTTGATGAT CATTAGTGTA GAAAATAGCT GTTTnATATT GAGGACCACG GTCTTGATAT	300
	TGACCACCTG TATCTAATGG GTCAATGACT GAGAAAAATA TTTCTAATAA CTTATTGTAT	360
30	GAGAATAATG CAACATCATA TTGAATTTCA ACAGTTTCTA AATGACCACT CGTACCTGAT	420
	TTTACTTGTT CGTAAGTAGG ATTTTCAATA TGTCCGCCCA TATATCCAGA AGTTACTTTT	480
35	TCTATGCCGT CAAAGGTGTC AAATGGTTTC GTCATACACC AAAAGCAACC TCCGGCAAAA	540
35	TAAGCTGTAT TAATATTCAT TTTTGACATC CTTTCCATTA GACCTTAGTA CGATTTATTA	600
	AGAAATCACT TGCTTTTTGA ATTGTTTTTA TATAACGTTA ATANGNGATT ATNAT	655
40	(2) INFORMATION FOR SEQ ID NO: 1209:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1209:	

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CCGnCCCCAA TGGAAATTAC CTTTGGTnCC CCATTTTAAT TGTTAAATTA TTGGAGTGTT

	AATCTCACTA TCTTCAAATA AGCTTGTGTA TAGTTTAACA GCTTCTTCAG CTTGGTTATT	180
	AAACATTAAA AATGTCGTGA TTTTTGGAAT ATC	213
5	(2) INFORMATION FOR SEQ ID NO: 1210:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1210:	
	TTGATTGCAA CTTTGATAGT GAAAACATTT ACATGATGTT GTCACTGGTG CACGGGCGTC	60
	GAGAACAATC ATTGCGTTAT TGACGGTGCT GCCCTGCTGT CTCAGTTTGT TGATGCAAGC	120
20	ACTACACGAA ACCCAATAGC nTCACCAGG	149
	(2) INFORMATION FOR SEQ ID NO: 1211:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1211:	
	AATGTTTCTC CTAATTTTAA ATGTTTAGGA ATATTAACTA GGATAATAAA TCCAGCGACA	60
35	TCCCAAATGG GATTCATATA AGAATGTTGG ATGATAATnT TGGCCGTTAA TATACATATT	120
	TTCTATTATA AAATTGGGCA AA	142
	(2) INFORMATION FOR SEQ ID NO: 1212:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1212:	
	TTTAAATTTA GTCACTTCAC CTTTTAAAGC ATGTTCATAA AATGTTTGCA TCATCAATGC	60
50	ACGTTCTGAA CCAGAGCCTT CAACACAAAG ATAAATTTGT ACAGCAATAC CGCCTCTAAC	120
	TCTTCGTTGC GATGATGGCA ATACCACTCA ATCCAACGCT CnG	163

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 765 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1213:	
	GTCACCTTTC ACGTCTTGAA GAAAAAGGCT ATATAAGAAG AGATCCAACG AAACCACGTG	60
	CTATAGAAAT TGTAAGTGAT CAAACAAATG ATAATATTAA TATGGAAGAA ACGATTCATG	120
15	TGCCAGTTAT TGGTAAAGTC ACAGCAGGTG TTCCTATTAC CGCAGTAGAA AATATTGAAG	180
	AATATTTTCC ATTACCTGAA CACTTAACAT CGACACACA TAGCGACATA TTCATATTAA	240
	ACGTCGTAGG CGACAGTATG ATTGAGGCTG GTATATTAGA CGGAGACAAA GTAATTGTnC	300
20	GCAGTCAAAC CATAGCAGAA AATGGAGACA TTATTGTTGC TATGACTGAG GAAGATGAAG	360
	CAACTGTCAA ACGCTTCTAT AAAGAAAAAA ATCGTTATCG ATTACAACCT GAAAATAGTA	420
	CAATGGAGCC AATTTACCTA GACAATGTTG CTGTAATTGG GAAAGTAATT GGTTTGTACC	480
25	GCGAAATGTA ATATTTTAAA CCGTTATATA TTATCGTAAT TGTTAAGCCC TCATTTTTAT	540
	AAATTTTGGG nCTCTTGAAA AAGTTACGTT TTCAAGAGGT TTTATTTATT CTAATCTAAA	600
30	TTCAGTTCAA ACAGAAATTG CGAATTGTTA GATAATCTCA TTCTTTArTA TAAATnTTGA	660
	ATTACAGATT TCTGCAAAAT GTTACACAAA TTAAAACTCG CCCCCGTAAT AATTTACAGG	720
	AGCGAGCCAT TATTATTTT TTCnTTCTTT TTTATTAAGT ATATC	765
35	(2) INFORMATION FOR SEQ ID NO: 1214:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 495 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1214:	
	AGTTGCCATC AAAAATACAG AACCTAAThA ThACCTTTTA TGATTTTTTG TGAATTCAAA	60
	GTCACTTTCT TTTTmAAGCT TTAAATTTCT CCCCATTTTT TTAGCCCCCT ATAAGGATTG	120
50	AATATCAATG CCTTCTTTCA TTAAAATTTC TCTAATTTTC GAAACAAATA ATAATGCATG	180
	TTCTCCATCA CCATGCACAC AAATTGTATC TGCTTGTAAC GTTACTTCCT TATTGTTTTT	240
	TGAAATAACT TTATYYYCCE TCACCATCTT TAAAACCTGC TTAAGTGCTT CGTCAGTATC	300

	ATCAGCAAAC ACTTCAGAAG CTGTAATTAA TCCGACATTC TTTGCTTCTG AAATTAGATA	420
	TGAATTTGCT AATCCTACTA ACACTAGTGA TGGATCAAAG TCATAAACAG CTTGTGCTAT	480
5	AACGTTTGCn ATTnC	495
	(2) INFORMATION FOR SEQ ID NO: 1215:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1215:	
	ANTGTCCAGG TACCCGTGGT CCAAAATTCG ATGTACGTAG ACCATTGNCT CGTATTTGTC	60
20	AGATTGTGTT AATGATTGTC TCTGTATTAG GAAGTTTATT CTCCATTTTA ACAATTAGAA	120
	AAATAGATCC GTTAAAGGCG ATTGGGTAGG AGGTGTGCAA ATGTTGAAAT TGAAATGTAC	180
	AAGTCATTAA GTGGATCTAC ATGAGCGTAA GGTCATTGGA ATAGGTTTGC TGTGACTCGC	240
25	CGA .	243
	(2) INFORMATION FOR SEQ ID NO: 1216:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1216:	
	GGGCTTCTTT CTAAAATAAC TAAGTGAATT ATCTATATAT GAAGAGGTCT CCAATACTTT	60
40 [°]	TTATATAATT CGTGATTACA TTCTATACTT TTAATTGTAT TTTCTGCGTA GGAAAGTGGT	120
	TTTATTAATT CGATTAGTTC GAACTACANT CAAGAAAAGG TAAAATTTGT GCATGAGCAA	180
	GAGAAACATA CCTGAACCAA AGGCACCCGA ACAGTACCTA GGCCTAAGCG GCTAATTATA	240
45	AATGCTCAAG CGCAnG	256
	(2) INFORMATION FOR SEQ ID NO: 1217:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1217:	
	TTTATTTTTT CTTCTAAACG AAACATTGCT TCTTTTTGTG ATTGTTTTGT ATTCTTGTTC	60
5	AACACAACAC TTACGCGCTT CCATTTATCT GTGTATGGAT CTTTATACTT CTCGTAGTAT	120
	CIGIATITAG TITCGITATI TITGTITITA AATTITICAA TCCACATGIT TATACCICCI	180
10	GAGAGAACGT ACGTTCTGTA AATTTGTAAA AAATAATAAG GGTAGGTGGG CTACCCAAAA	240
	TTTAGTACTA GGTACTAAAT ATGTTATAAT AAAATAAAAA GTAGGTGATA AGATGACTCA	300
	ATTTCTAGGG GCGCTTCTTC TTACAGGAGT TTTAGGTTAC ATACCATATA AATATCTAAC	360
15	AATGATAGGT TTAGTTAGTG AAAAAAACAA GATTATCAAT	400
	(2) INFORMATION FOR SEQ ID NO: 1218:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1218:	
	CCAAGTGTCA ATTTTAGATG ATTTTTTTGT TGACCTATCG CCTTAACTGA AGAAACTGAT	60
30	AAATCATCCA TTTCAAAAAT AGGTCTAGAA AAATCTGTTC CGAAGGECTT AAACGATTCA	120
	TATCACGAAT ATTTTTAATC GITATATCAT TTTCTGTTAA TAATACATCT ACTTGCTTTA	180
	CGGGATCTAA CGAAGTTGTT TTAGATAATT CTTTCATCCA TTTATTTAAA CCTTCAGCTA	240
35	ACGATTCTAT ATTTTCAATA TCCATCGTCA TACCTGCAGC CATATGATGG CCGCCAAATT	300
	TAGCGATTAA CTCTTGATGT GCTGATAGTA TTTCAAACAT CGACACTTGA TCAATTGATC	360
40	TGGCGGAGCT TTTGCATGAT TTTGCTCCCT ATCAATATTT	400
	(2) INFORMATION FOR SEQ ID NO: 1219:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 458 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1219:	
	AAGATATTAG ACATAAAATC TAAAAACAGC AGTAAGATGA TTTATGATTA GAAACTATCT	60
55	TACTGCTGTT CACTTTTTAT AATACTTCTG AATGTCTTCA CTTATACTTC TAGTCACAGA	120

	GCATTCATTT CTTGTcTAGC AACGTTCTAC TCTAGCGGAA nTAALTAGCT ACCATCCTCG	240
5	CTAAGAACCT TTCTTGACTT GTGACAATCG CTTGCTTCTT TCCTCTCCTT CGGCTCTCGC	300
5	TTACTCATTT AGCTCTACTA AACTCGTTGC GCTCTTTTCT CGTTTCGTCA GATTCAAACG	360
	TTTTCACTTC GCCAAGCCAT TTTTCTTTGT GTTTACTTTT TATTTTGACG TTTTAGACAT	420
10	AAAAAAAGAG ACCTCACGGT CTCAACTTGG CCTGGGCA	458
	(2) INFORMATION FOR SEQ ID NO: 1220:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 494 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1220:	
	CAAAATTTAT TTCTTGTAAA GTACAATATA AGTTAAATGT TGTTGTTAGG ATTGATTCTT	60
25	TCATCTGAGC ATTTAATTGT AAGTCGCTAT ATTTAATTTG TTCAGTATTT AMAAATAAAT	120
	TGAAAAATTC AACTGATAAT AAAGGTGTTC TAATCATACA AATACTTGAC GGTTCGTAAA	180
	TAGTGTTCAT TTGTAAGCAC CTCACATATT TGAATAGACA AATAGAGCCC TTTCAGGCTC	240
30	TATTTGCTGT AATCTTAACA GCAGAAGCTA TTAAAACTAC CAGTCTTAGC ACAACCAGGA	300
	GTACATAAAC TATGACTTGT AATACGTTCG TCACCTGCTG AATCATTTGA GTnATTGTTT	360
25	GCTTTAACTT GCACGTCTAA ATCAAGAACT TTTTCCATAG ATAAAACCTC CTATTATTAG	420
	TTGAAGTTAA GGCCTACTTC AATTGTCATA TTATCCCTTT TCACACAACA AATCAATAAA	480
•	TTATATAATT ATAT	494
40	(2) INFORMATION FOR SEQ ID NO: 1221: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 148 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1221:	
50	ACTATTATTT TAATAGTGAC GACAGTTTTA ATTTTATTAA GTATTGCTTT AATTACCTTT	60
	ATGCAATACT ATTTCACACA AGAMACCGAA AATGCCATAA GAGAAGATGC TAGACGTATA	120
	AGTTCACTGG TCGAACAATC ACATAATA	148

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 401 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1222:	
	TCGCTTTTAC ATCAAATAAA TTATCTTTAT ACAATTTCGT ATGAATTACT TCTTTATAAT	60
	TATAAAAATG AGGAATTTTT TGATTGTTTA ATTCACTTGC TAATTGATTA GCTTTTTGTT	120
15	GGTCTTTAAT TGTAACGTCG TGTGGTGCAG TATATTTTAT TTCACTTGAT AAGGACGCTC	180
	TACTTATAGC AGCAAAGCAA AGAACTGAAA CAGTAATCGC TGAAATGATT GCCATGACCG	240
	TAAGTGAAAA AGCATTTTTC TTAATACGAT ACATAATAGA TGATGAGAAC ATGACATCAT	300
20	THACACTTAT AACACCTTKT CTAAACHTCT TCACCATTTT AAAAACTAGA GAYACAGAGC	360
	TTTTAAAAAA TAAGNGTGCC CCAATCACAG TTGACAANAA A	401
25	(2) INFORMATION FOR SEQ ID NO: 1223:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1223:	
35	CTTGACCAAA TCCATTTTTT AACAAAAGTG GTCAAGTGAA ATCCCATCTT TCCAAATCAA	60
	AAAAGAGCTA AAGCAAAATG CTCTAGCCCT TGATATTACT GATTTCCCAT CATTGTnTAG	120
40	CGTATTAATA TTGCTTCATG TACTGATCTC TTTCCCATTC AGAGACTTGA GTTCTG	176
	(2) INFORMATION FOR SEQ ID NO: 1224:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 283 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1224:	
	AATACTTTTA CGATAATTAT AAAGGTTCAT TCAAATCTTA GGGCAAAATG TATAATATTT	60
55	TTATGCAAAT TTAAAACAnT AACACTTATT TCAAGGTTCA ATATTTTGAG AATAAGGAGT	120

	AATGCCAATC AAACTCGCTC GAAATAGGGG GAAACGAGGC nATCATTTTT GACAATGAGT	240
5	GTCAATAGGG AAGAATAACA ATTAGGAATG ACTCATAGGA GGA	283
-	(2) INFORMATION FOR SEQ ID NO: 1225:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1225:	
	AAAAGAAGAG AAGAAAGTTG AAGAACCTCA AGCACCTAAA GTTGATAACC AACAAGAGGT	60
	TAAAACTACG GCTGGTAAAG CTGAAGAAAC AACACAACCA GTTGCACAAC CATTAGTAAA	120
20	ATTCCACAGG CCATTACAGG AATTTAAGTC GGATACCACG TGAATnACGT CAGGATGTCn	180
	GCCGTTCACA TGACACGCTC TACATATTCA CCACTCG	217
25	(2) INFORMATION FOR SEQ ID NO: 1226:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1226:	
35	TGGGTACTAT TTATTACGTA AAACTTTTCG TTAGCGATGC CGGCATTGCA AGAGCAAGGT	60
	TTACAAAAGC GGACTAGGTT TGCACTTTCT GCTGTTCCAT CGCATATGGA TTAGTAAGGT	120
40	CTTTATGGGN ACTGTAAGTG ATCCGAGCAA TGTCGGATAA TCTAGGTCTT GGATAG	176
	(2) INFORMATION FOR SEQ ID NO: 1227:	•
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1227:	
	AATGAAAATA AAGAAGATGA TTTTGTTGCA TATGGGTCTC CAGAACATAA TTATCAATTT	60
55	GGTGGAAGTT TAATCAAAAG TAAAAATTTA AGCACGTTAT TAAAACCAGT ACATCAAACC	120

	GCGGCCGITI TAATTITGIT TICAAGTTAA TCATACTTAC ATATAAAAAT GAAAAGTTGA	240
5	ATTTTTAGTA CAATTTCCAC TGTATTTATC TGTTAACCAC TTTATACCCG CAATATTTCG	300
5	TTGATCTTAT ATAAACACTT TTGGCTGCTT TTCCTTGACC TAGATTAAAA TTATAGATTT	360
	TCCTTGTAAG AGTGTGTTTG TAGTATCATA AATATGTAAA	400
10	(2) INFORMATION FOR SEQ ID NO: 1228:	
. 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1228:	
20	ATCTAGCATG CTTTTGGAAA ACGATAAGAA TTTGGTGTTT GAATTTCATA ACCAACACCA	60
	GCAGTTTCAA CAACTACGTG TGTAGGATAT AAATGTGTTA CTTGACCTTT GACATACGCG	120
25	TACATTATAG GCACATCCTT ACATACTCAn	150
	(2) INFORMATION FOR SEQ ID NO: 1229:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1229:	
	TCGGTACAGT GCATTTGGTG CGTCATGGTT TACAAGGNAA AAATAAGTGA TCACTATTTA	60
10	TCAGTATGGG AAAAAGCAAC GACGTATCAA ATGTACCATG GCTTAGCATT ATTAATTATA	120
40	GGTGTAATTA GTGGTACA	138
	(2) INFORMATION FOR SEQ ID NO: 1230:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1230:	
	TTGGTATGTA CCTCCAATAG TAATTTCAAT AACTTTGTCT GTTGAACACT AAGAGCAATT	60
55		

	CCTTGATTAT nCTAAGAAAA GTAAAAGCAC ACGGAGTATC CTATCAGAAA ACCAGTATAC	180
	CA	182
5	(2) INFORMATION FOR SEQ ID NO: 1231:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1231:	
	TCTCTTTAAA TTGTACACAA TTCTGGATAA CTATCCCCAT TTCTGTGGAT AAACACCTTG	60
	ATGTCTTATT ACTTATCCTC GTTTTTATAT CCCATATTTA TCAACGGKTA TCGCTTTTTT	120
20	TCATAAAAA aCACTACCGT ACCYCTTATT TAAGAAATAC AGTAGTATTA TTTTCAATAT	180
	ATTTTAGCTA GCnTTTCTAC GTCGTACAGT CGCGATTAAA CCTATACCTG CTA	233
25	(2) INFORMATION FOR SEQ ID NO: 1232:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 385 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1232:	
35	GTTTTTGGTA AAAGTACTAA TATTAACCAA GTATTGAGTC ATATGTTAAA ACAAGATGCG	60
	AATGATATTG GCTTTGCTAA ATTACTACAA AATGAGAATA ATCGTATGAG TTATAACGAG	120
	TTAATGAGTG AATGGCAATC ACATCAACGT GCATTTTTAG AAGAGTTGAG GCATGTTGAA	180
40	ATGTTAAAAG AAGAATCTAT TAGAGCATAT GATGTTTATA AAAATTGTGA GTCTTTCTCT	240
	AAGATTGAAC AGGTTATTAA TAGTGAAAAA ACAAGTATTG AAGAACAGGT ATATCATTTA	300
45	GATAATGAAA CGTTACGAGA CAATAAAGAA ATAGAAGTTT GGGATAATCG ATTTAATTAn	360
	ATTGNTAGCC CAATGGNCCC TTTAA	385
	(2) INFORMATION FOR SEQ ID NO: 1233:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 180 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55	•	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1233:	
	CTGAAAAGAT TCAACTAATC TGAGTCAGGT TACAATCTCA TGATAACCGC TCGCACCTCG	60
5	GAGAAAGACG CTCAAACAGT ACAGAGCTCG ACCGCAGGAT ATTTTTTGTG AAAATGAACG	120
•	TATGAGCTGT TCAGANGGCA CTTTATTGCG CAATAAAACG GTAAAAATCC TGAAGTGAAG	180
	(2) INFORMATION FOR SEQ ID NO: 1234:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 453 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1234:	
20	ACCATTTTAA TTTnCnTTAT GACCTTGTAT GCCATTATCA aCAGTTATGA TTAATGTTAT	60
	GCYTTCATCA TGAGCATTTC TAAATGCTAG TTCGTTTGGT CCATATCTTC GGTAAAGCGG	120
	TTAGGAATAT GCCATCCTAC TTGTGCACCT AAAAGTTGTA ATGTTATCAC TAAAATTGTA	180
25	GTTGCGGTAA CACCGTCGGC ATCGTAATCA CCATAAACTA GGATTTTCTC ATCATTCGCT	240
	ATCGCTCTTT TAATTCTTTC AATAGTCTTA GTCATATCGC TCAATTGAAG TGCATCATGA	300
30	TTGATATCTG TATCTGAAAT GATGGATTCT ATTGCTTGTn CATCAATAAT CGATTTACTT	360
	nCTAATATTT TTTTTACGAT TGGCGTTAAC TTTAATTTTG ATGTTAATTC ATCACTTATG	420
	TATTCAGCTG GTTTAGTTAA TTTCCACTTA TAC	453
35	(2) INFORMATION FOR SEQ ID NO: 1235:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 163 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1235:	
	CGTGATTAAG TTGGATACTA AAATTTGGGA TGTTAGAGAA TGTGATGAAG ATTTmCAGCA	60
	ATGTCCTGAA ATTAATGAAA TAAGAGACAT TGTTTTAAAG CGGTGGTTTG ATAGGTTTAC	120
50	CAACTGAAGC AGTTTATGGA CTTGCAGCGA ATGCGGCAGA TGA	163
	(2) INFORMATION FOR SEQ ID NO: 1236:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1236:	
	GTTAACACAT CGCTTATAAC GTGTAAATAT AAACACTGTT TTATAAAAAC TTTTTATACC	60
10	ATTACCGGCA CCGATAAATG TGTACTATGG AGCACAACAA TAACTGGAAT ACTTHGATTT	120
	AATCCCGCTA TAACATTTCC TAAT	144
	(2) INFORMATION FOR SEQ ID NO: 1237:	
15 - 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1237:	
25	ATAGTTTAAG GTGATATTCA AACAATATTA GGTTTGATTT AACTATCAAG CATCTACTTT	60
	GTCATGTTTA ATACCAGCAA ATAATAAAAT CCATGTCACG ATAATAAATG GCATGTTAAT	120
	GCAGGGTAAG CCCAACCGGT CCAGCCATGG TGGTGGTACC CTANTTGGCC NCCACCTACC	180
- 30	GGTTAATTAA CCACCCCAA AAAA	204
	(2) INFORMATION FOR SEQ ID NO: 1238:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1238:	
	CGGTCATTTT GGTTATTNAA CAACTATACC TGAGGGGTGG TGGGTAATTC GTATTGCCGA	60
45	TTCAGTTTTG TTAATATGCT GACCACCTGC ACCAGAAGCT CTGAATGTAT CAACTGTGAA	120
	TAGCATCCGG ATTGGTTTCA ATCTGCTATG GCATCAT	157
	(2) INFORMATION FOR SEQ ID NO: 1239:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1239:	
	TTAAAGCATG TTCATAAATG TTTGCATCAT CATGCACGTT CTGGACCGAG CCTTCAnCAC	60
5	AAGGTAATTT GTACAGCATA CCGGCTCTAA CTCTTCGTTG CGTATGCCTG CAATTTCTTA	120
	CCTCGATACT TAAGTCAATT TTCCGGGCAT AAGGGTGTTC ATTT	164
10	(2) INFORMATION FOR SEQ ID NO: 1240:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1240:	
20	TTGAAAAACT GAAAACGGTG AAGTTTTACA AACAACTAAA ACAGATAAAG ATGGTAAATA	60
	TCAATTTACT GGATTAGAAA ATGGAACTTA TAAAGTTGAA TTGAAACACC ATCAGTTACA	120
25	CACCACACA GTAGTTCAGA ACTATAAGTT GATCAATGTC TCACACAGTG CATAATnGAA	180
20	CAACATGCCG GTCTCAACAC TCACTAGGCA GAGGATCATA ACGGTCGTng TAAGCTCGG	239
	(2) INFORMATION FOR SEQ ID NO: 1241:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1241:	
	TGATAAATAA TAGCGCCATC ATAAGTTGCA GGGTGGTAAT CATAATTTCT ACCATGAGTC	60
40	TTTGCCTTGA AAGACCGTGC ACCACTTTCT TTTAAATCGG TAAACGATAA TGnCAAGTTT	120
	AAAATAATTT GGCGTGTTGG CATTTGAGTA TC	152
45	(2) INFORMATION FOR SEQ ID NO: 1242:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1242:	

	ATCTTTACCT TTCACTGTTC ACTTATGTAC CATAATACTT CTGACAGTTA CTAATTAACA	120
5	GCAACTCTAA CTCATTTATA TTTAACTA	148
5	(2) INFORMATION FOR SEQ ID NO: 1243:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 588 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1243:	
	GGTACCAATC GATCGTTACA AACGTTTCGT TAAAGACGAT AAAAAAGTAC CAACAGGCAA	60
	TGAATATCGT GAATTAGTAT TAAAAGCAAT TCACATGATT ATGCTTGGTT TCTTGTATAA	120
20	ATATATTGTT GCTTACTTTA TTAACACATA TGCAATCATG CCGTTACAAT TAGACTTACA	180
	TGGCTTTGTC AATTTGTGGT TATATATGTA CGCATACAGC TTATATTTAT TCTTTGACTT	240
25	TGCAGGTTAT AGTTTATTTG CGATAGCATT TAGTTATTTA TTCGGTATTA AAACACCACC	300
	AAACTTCGAT AAACCTTTCA AAGCGAAAAA TATTAAAGAT TTCTGGAATA GATGGCATAT	360
	GACATTATCA TTCTGGTTCA GAGATTGTAT TTACATGAGA TCTTTATTCT ACATGTCTCG	420
30	TAAAAAATTA TTGAAGAGTC AATTTGCAAT GTCCAACGTG GCATTCTTAA TCAACTTCTT	480
	CATAATGGGG ATTTGGGCAT GGGAACGAAG TGTAATACCA TTGGTTTAAG GGGTTAAACC	540
	ATGGCCAGCC TTGGTTAAAG GGTAnGGnCC AATAAGGACG GTGGGCGG	588
35	(2) INFORMATION FOR SEQ ID NO: 1244:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1244:	
	ATTGCTGGAG AAAGGCAAGG CTTTGCAGGC GGATTGAACT CGACATTCAC TAGTATGGGT	60
	AATTTCATAG GTCCTTTAAT CGCAGGTGCG TTATTTGATG TACACATTGA AGCACCAATT	120
50	TATATGGCTA TAGGTGTTTC ATTAGCAGGT GTTGTTATTG TTTTAATTGA AAAGCAACAT	180
	AGAGCAAAAT TGAAAGAACA AAATATGTAG CATAAGTATT TTGGTGTATA TTGATATAAA	240
<i>55</i>	GTAAAGCGTA ATATTATGAA TGATTAGCAT CGTTTTTCTT ATGAATTTTA TTAAGAAAAT	300

	GTTATATGTn ACAAAA	376
	(2) INFORMATION FOR SEQ ID NO: 1245:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 288 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1245:	
15	CAATTTGTTC TAAAGCAAAT TCTTTACATT TCTCACGGAA TTCAGCTGTT GACATTTTCT	60
	TTCGGTCAAC ACCTTTTTC GTTAATGGCT TGTTCAATTG GGTAAACCAT GTGGTTATCC	120
	CCCAACCTGG GTACCGTATG GGGTGGCCAT TAGGAAACCC CTTGGCAATA GGTTTTTTAA	180
20	TAAACCGGTA nCAAATTAAA AGGTCCTTTT TTAAAAAATT TTTGGTTTCC AAAGGGGCCA	240
	ATGGITCCCC CAATTAATGG TTAAAGGTTT TAACCCCAAT TTTCCGGC	288
	(2) INFORMATION FOR SEQ ID NO: 1246:	
<i>25</i> <i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 161 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1246:	
35	CATCATCAAT AGAACGGTAT TCGCAACGTC GTAGAAATCC CTTAAACGAC GAGAACAAAG	60
	CAAGTCGACA TCAGTAAAAC ATTAAAGATA TTATGGCTGA AGCAGAGAAC TTAATAACTT	120
	TTTATAAATC TATACCnTCC AAAATGTAAA ACTACCAAAA T	161
40	(2) INFORMATION FOR SEQ ID NO: 1247:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 421 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1247:	
	TCACTACGTT GTTTAATTGT GGTAATTGCA GTTTTACAGG CTTGTCTAGT GAAGATTTAA	60
	AACTTAATTC AAGTGTTTTA GTCATGAATA TGTCCTCCTG ATTAAATTGA TAAAGATTTG	120
55		

	TTAATTTGGT CGTTTGATGC ATCAGGGTTA ATGTTAGCGA ATCGACGCTT AAATTCTGTT	240
_	TGTTTGCCGT TAGCGTCLAC TTTAGTAAAT GaTAATACAA TAGTGATGTG GTTTATTTLA	300
5	CTCATATTTT AAAACCTCCT TTCACACTAT ATATCGAAAC AAAATAATAA AATGGCTAAT	360
	TTTATTTTCT ATGTTTAAAA TCTATAAAAn AGGCAATAGA TATGTGTAAC TAAAATATAN	420
10	G	421
	(2) INFORMATION FOR SEQ ID NO: 1248:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1248:	
	ATAAGCTGCT GTTGATAATC CAAGTGCTAA AGTTAAATAT AATATAGTGC CAAAAATTTT	60
25	ATTCTTCTAT AAAAACACCT CTTCATATTT AATCCATATC TCTTTTTCGT TATTTATACA	120
	GAATTTTCTG AAAATAGTCA AGGTTAATTT ATTTGCTGCA AATTTCAACC ACTTTATGTT	180
	AAATGGACAT CAAAGTATAA TTGTATTATT ATTAAATTGT GCAGTGTATA AATAGACGAT	240
30	ATGCAGGAAC ATGTCGCCTA TTGAGCCCGT TAAAAAGACG GTGACTAAAT GAGATTTTCT	300
	TTAACCATCA TTCGTTGTCA AAGTTTGGAA ATGATGGTTG TTTTTTTTTT	360
	TCATTGCGAC TTCTATATCA ATGAAAGTTA TCTTAATATA TGAACTTCA	409
35	(2) INFORMATION FOR SEQ ID NO: 1249:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1249:	
	CTTTCAATTA CGAACAAATC ATTACTAGTT TATTTAATGA TAATGACTGn AATTTAGCAA	60
	AAAACGTAAC ATGATCATTT AGCTTGAATT GGTAAAACTG TTTATCCAAC ATTTCCAGAC	120
50	CAAATCACAC CGGTAAAACG TCAAAATATA TTGTnTCTAT GCCCGTTTTT ACCAGTTATC	180
	TCATTGCAGG TATATTGATG AATTCACAAG TTGGTAT	217
	(2) INFORMATION FOR SEQ ID NO: 1250:	

5	(A) LENGTH: 176 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1250:	
10	CAGAACGTGC GGATCGTTTT TATGCAACCT AAACCAGGTA CGGATTTAGC GTGGTTAAGT	60
	GGCAGTGCAC TAAGTATATT CATTGATCCT GCATTTACAC GATGAAAGCA TTTATTGCAT	120
	GAGTGGGTAG ATGCATTTTG CTGGAATGAT TCACAAATGC ATTAGAGNAC ATTTAC	176
15	(2) INFORMATION FOR SEQ ID NO: 1251:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1251:	
	TTTCAACTTT CTAAATTATA ATATATCTTT TTAAAATAAG CTAGAATTTC TATATAATAA	60
	ATGTTAATAA CGAAAAGGGA TGATGCATAG TGATCGCAAG CACGCCAGAG GCCGATTTGA	120
30	TATTGCGAGT TAGTTTATAT GGTTTGGGAT GATATGGATA GAATTGGTAA ACATCTCCTA	180
	AAGCATGGTA TAGTGCAATT NAAAANCTGT GT	212
	(2) INFORMATION FOR SEQ ID NO: 1252:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Toroboot. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1252:	
45	CAGTAAGTCA ATTGAAATGG CTAATTTATT AAATCTATAA AAGCATAGAG CACTGTTGTG	60
	AGTTCATAAT CAAAGATTTA TAAATGTnTC AGACTGCCAA TATAACATTT AGGACCTAGA	120
	ACATTGATTA T	131
50	(2) INFORMATION FOR SEQ ID NO: 1253:	
<i>EE</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 462 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1253:	
	TTAGTAGTCA TCGGTATTGG TGGTTCTTAC TTAGGTGCAC GTGCAGCAAT CGAMATGTTA	60
5	ACGTCATCAT TTAGAAACAG CAATGAATAC CCTGAMATTG TATTTGTTGG TAATCACTTA	120
	TCATCAACAT ATACGAAAGA GTTAGTTGAT TATTTAGCAG ACAAAGATTT CTCTGTAAAC	180
10	GTTATTTCTA AATCTGGTAC AACTACAGAA CCAGCAGTTG CATTTAGATT GTTCAAACAA	240
	TTAGTTGAAG AAAGATACGG TAAAGAAGAA GCACAAAAAC GTATATTTGC AACAACGGAT	300
	AAAGAAAAG GNGCTTTAAA ACAGTTGGCT ACAAACGAAG GTTATGAAAC GTTTATCGTA	360
15	CCTGATGATG TAGGTGGAAG ATATTCTGTT TTAACAGCAG TAGGATTATT ACCAATTGCA	420
	ACAGCTGGAA TTAACATCGA AGCTATGATG ATTGGTGCTG CA	462
	(2) INFORMATION FOR SEQ ID NO: 1254:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1254:	
30	ACTCATAAGT GAATGGTTGA TTACCACTAG TTAAAACTTC ATATACTATA GTTTCTTTTT	60
	TTATTTTGCA ATTAGTTATT TTCATTATAA ACTTCCTTTC AAACACTGCT GAAATAGACG	120
	TCTTTTTCAA ATAAGCATGA TTAATACTTC AATTCTTTAA TCCACATATA TTTAAAAGTG	180
35	AGGTAGTAGG TAATAAATAT AAGACTTAAA GTTAAGATTG CTTTTTTCAT GTTTCATAAT	240
	TAAAACCTCT GTAAATTTAA GGTTAGTATT ATGAAATAAT GGATTGGTTT ATTCTTTAGT	300
40	ACTAACTTCG TAGTAAATTA TATAGTTCGC TAAATTGTAT TTATCTACTA TATTTTTGGA	360
40	ATAAACAATT TCCTTTCTT TCTTCAGTAA ATTATAAAAA	400
	(2) INFORMATION FOR SEQ ID NO: 1255:	-
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1255:

	NAATCTATGT ATGGGGGCAT CCAAAGATTT CATAGACTAC TTATTTGTTG ATGAAGCCGG	120
	ACAAGCAATC CTCAAGC	137
5	(2) INFORMATION FOR SEQ ID NO: 1256:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1256:	
	TGAAATGTAG AAATTGAATT AGAAATGAAG ATTAAAAATC NACACGTATC GTTCAAGTGG	60
	TGCAGGTGGT CAGCCGTAAA CACAACTGAC TCTGCGTACG TATTACCATT TCCACTGGTG	120
20	TCATTGCAAC ATCTTCTGA	139
	(2) INFORMATION FOR SEQ ID NO: 1257:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1257:	
	TTACCAnTTA TTTTAACACC ATGTTTAGAC CAATTTGATC TGACTAAATT AATCGCTGTT	60
35	TGTACCTCCA AATTGTTACA ACGTACACCT TTAGTTTTTC TAAATTAATG TATATTCATC	120
	ACATCTTCTT CAGTTAAGGG TCAAAGTATA ATTTGTCGAA ATTGTGAAGT CGTTGTA	177
	(2) INFORMATION FOR SEQ ID NO: 1258:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(3) 20102031 221002	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1258:	
	AAGACCAACC GAAATGAATA TCGACATGGA TTAAGCCTAT ATTCAGATGT AAACGGCGAT	60
50	TATATTAAAA AGCCAATTAC AGAATGTAGT GGTTAATGAA ATATGCCCAA GAATGGGCTG	120
	TATATTAAAA AGCCAATTAC AGARTGTAGT GGTTAATGAA ATATGCCCCAA GAATGGGCTG TATCACTTAG GTGTATCAAA CTGACCAAAA ATTGGAAGGA CTTTAGGCCA AAAACCATGC	180
	TAICACITAG GIGIAICAAA CIGACCAAAA AIIGGAAGGA CIITAGGCCA AAAACCAIGC	100
55	·	

	TTAATTTTC	250
	(2) INFORMATION FOR SEQ ID NO: 1259:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 170 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Topologi: Tillear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1259:	
15	ACATTTACGG GACATTTCAT TACATCACCC TGCTTTATTT TGGATTATGG CCTAATTTAT	60
	ACTGATAAAT CTAGGAGGTG GAAAAAAGAA TGCCCTGCAA TTTAATTnCA TTTAACCAAA	120
	TAATGAAACA ATAAAAAACA TTATATCGTT ACTTATTAAG TAATTTGGCA	170
20	(2) INFORMATION FOR SEQ ID NO: 1260:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	**. >
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1260:	
	TTTGTACTCC GATACGTTGT ATTCAGGTTG ATGACACTAG GAATTTGTAA TGATCAATTT	60
	CTCTAATTCT TTACAATTGA TAGAATTCTT CGATTTGTGG ATAGACATTC ATATCATTGT	120
35	CTAATGATTT TTGGTGATTC ATAAATTGTG ACTAAAGCTT GGATGCTTTA GGATTGTAGC	180
	TGAGACACAT GTTGCGTGAC TGnGGATTTA TCANATAATC TCAATCACGT GATCCNATCA	240
	CATTCATCAG CTCACTAAAT CAAGATGATC GTCGTTTATG GGCGATTAAT GGCGTACCGC	300
40	CAGTGTCCGC ACG	313
	(2) INFORMATION FOR SEQ ID NO: 1261:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 206 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1261:	
	TAGCGATCAT TTAATCAAGG TTAGATTATT TAATGTCAGC ATTACGTTTG ACAATGAACT	60
55		

	GTTTGAGGTT ATCACAATGC CATTTAACAC TATGCGCACA TGGCTGAACT AATnAGCGAC	180
	GAGATGACTT CAAACCTTGA TTAGGT	206
5	(2) INFORMATION FOR SEQ ID NO: 1262:	• . •
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1262:	
	AAGTGTGTAC ACGATAGCTA AACTCAAATA TCACAGAACA ACAAATGTCT TAGTACTTTG	60
	TGCCGGTGGT GGTACAAGTG GATTATTAGC CAATGCACTA ATAAAGCAGC TGAAGAATAT	120
20	CATHTGCCAG TGAAAGCGGC ACTG	144
	(2) INFORMATION FOR SEQ ID NO: 1263:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1263:	
	ATAACGACAC CTAATGCAAT TTGAATAAAG CAGTAGAATT TGTGGGAATC GATTATTGAT	60
35	AACCGAACTA ATAATCACAG CAAAAATAAA ATTAAAAATG CTCTAATAGT GCCTACATnC	120
	TCCTCAAATT TT	132
	(2) INFORMATION FOR SEQ ID NO: 1264:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1264:	•
50	TATGTCAATT TCGTAGAATT GGTTTTANGC GCTATTTAGA ATAGCCATCA GATAAAATCA	60
	TTATTTAAAC GTATAATAGG TCAAAATATA GAGAGTTACT ATACAAATTT CTAACTTTCA	120
	CTTAAAATAA AATATATATA ATTAAAGTGG AGGAGAAGG	159
55		

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1265:	
,,	ATAGCTCAAG CAATCATTAT GTTTATAATG ATTGTATGGT TCTTTATAGA TGCTTTATTG	60
	ATTAATTAAT AAAAAGCTTA TTGCAAAATA TGTTTTTCGG TAACTGTAAT TTAGTGATTT	120
15	TATCATTAAC AG	132
	(2) INFORMATION FOR SEQ ID NO: 1266:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 405 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1266:	
	CATGGATTTA TCTTAGCGAT TGGTCTAATT TTACCTTTAG GTGCACAAAA TGTATTTATT	60
30	TTTAACCAAG GAGCTAATCA ACCAAAATAT AGATATGTAT TGCCTGCAAT AATTACAGCC	120
	GGGTTGTCAG ACAGCTTACT TATTATTATT GCAGTGGTAG GAGTWTCTAT CATTATTATG	180
	TCTTTACCTG TACTTCAWGC AWTTATTTAT ATAGTTGGTT TAATTTTCTT GATGTATATG	240
35	GCTTGGACCA TTTGGCATGA TAAACCCTCA ACAGATGGAG AAACTCAAAT TATGTCTCCA	300
	ATGAAACAAG TAAGTTITGC TTTATCAGTT tCATTACTCA ATCCACATGC TATTTLAGAT	360
40	ACAATTGGAr TAATTGGtAG TAGTGCTGCA TTATATAGTG GCnGC	405
40	(2) INFORMATION FOR SEQ ID NO: 1267:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1267:	
	TCTTTATATT GCAGTACAAA ATTCGCGTGG AGGTTTAACA CAAGTAGACC GCACAAGATT	60
	TAGCGTCTGA AGGTATTACT GTGTAATGCA TTCGCACCTG GNTATCGTTC AAACACCAAT	120

(2) INFORMATION FOR SEQ ID NO: 1268:

<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 247 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1268:	
	TTTGCCCAAG TGACGTAAAG TACCCAATGT CCATTTGTAC TTGTATCGCC ATCAACAGTA	60
15	ATCATATTAA ATGTATGGTC AGTCGAAGAT TTTAATAATT GATGAAGTGT ATTCGATTCA	120
	ATCGATGCAT CGTGTTATAA AAGCAAGCAT GTAGCCAATT GGGAATCAAC CCGANCTTGG	180
	CACACATGTA CGTTACACAT TAGAACNCAA GTGACCGACG GTAATCCTAC CCGCTCAACA	240
20	CAAGCGC	247
	(2) INFORMATION FOR SEQ ID NO: 1269:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1269:	
	TCATTGTATA TGAGCAGATT GGCTAGGCGG TGGCTGGACT GACGGAATCG ACACCCGGCT	60
35	GGGGTTGGGA AAAGTACAAG ACGCAACATG CTATGATTTT CCTATGTGGT TATCGTCCGA	120
	TTTAAAGTGA GCAGCGCACG GTCAGTCATC TCTCACAGNA CCTAAAAAGA ACAGTAAGCN	180
	CAACCTAAAG CAGTGGAACT TAAAATCATC AAGGT	215
40	(2) INFORMATION FOR SEQ ID NO: 1270:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1270:	
	ACAATAAAGA CTATTAAAAG AGATATAGGT TAGATATTAC ACTTTTAGAG CAAGACGGTA	60
	TAAATGCAAG TAAATTCGTG TATTTATCAA TACAGCAGGT NGAGTGAAAG GCCCAGCAG	119

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1271:	
	CGTGGCACGT TAAGCGTTTA ACCATAGCAT TAAGATGATT GTCTAGCAGA GGCGATTTGC	60
	GGGCTCACTA CAGTGCATGA TGAACTTAAT GCTTCAAATG TAACATTAAA AATAAAAGCA	120
. 15	ACGATGTCAC TTCTTACTTC TACATCTGCC ATmTTCGTGA TTTCGTATCT ATCCCGCATC	180
	TCATCTTGAA CGTACGAGCC TAATCGCCCn GCGCGATCCT GCC	223
	(2) INFORMATION FOR SEQ ID NO: 1272:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1272:	
30	TAGTTACAAT ATCTGTCAAT TTCTGGAGAA CCACTAAAGC TATGCATAAT CCCGCCTACC	60
••	TCTTCAGCAT GCTCCTCCAA TAAGATATCG GTACAGTCTT GAGATGCTTC ACGGTTATGA	120
	(2) INFORMATION FOR SEQ ID NO: 1273:	
·35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
•.	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1273:	
45	TTGCGCGGCA GTAAAATTCA AACTATTGGC GTCATTTTGC CTAGCTTAAC AAATCCGnTT	60
45	TTCTCAGCAC TGATGCAAAG TATTCATGAC CATAAACCAT CTGATGTTGA TTTATGCTGG	120
	TTAACA	126
50	(2) INFORMATION FOR SEQ ID NO: 1274:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1274:	
	GATTCTGAAG GATCAATACn ACATGTACAA TTTTGGCGTA GGTGCAAAGG CATCAGGTTT	60
5	GCTTGCTAAT CTACATCGAA GCGGCTACCT AAATTAATGA GAAATCACAC TCAGTTAATG	120
	CATGTACTAG C	131
	(2) INFORMATION FOR SEQ ID NO: 1275:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1275:	
20	TGGAGTATTA CCTCAAGTGA ATACAACATA CCTGTTGGAA GATTTTTCAA AACTTTAATT	60
	GGACCAAGTG ATGCCATTGA TGAGTTAAAT CCTAATAGAT TCAGGTTACC TCGGATGATT	120
	GATACTAATT TGGCCTGGCG CACGCTTTAG TANTAGTGG	159
25	(2) INFORMATION FOR SEQ ID NO: 1276:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 577 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1276:	
	GAAGTAAATA ATATATAGAA TATAACAGGA AATAAAATAG ATAATATTAA TGTTGTTTTT	60
	TTACGCATTA TAACTTTAAA TTCGATTTTC AAGTAACTTA GTATCATAAT TAGATCCCCT	120
40	TTGCTTTTTA TTGnTGAAGT ATGAATCAAC AATTGAGACT LTTTGTATTT CAATATCATC	180
	CAAATTAATA TGAAGTTGTT GAAGATATAA AATCGTATCA TTTACATTTG AAGTAATAAT	240
	TTTSATAGTG CCATTATGAT TTTYYCTGAA TAACTAAATC ATCTTTATCT AGTTTTAACT	300
45	TTCTTATATA TTCATCGGAT AACGTAATCT GAGATTGCTG ATTGGTTCTA ATATGTGACG	360
	TTGAATCATT AAGTATTATT TCTCCATTTT CAATGAGAAT AATTTTGTCT GACATACGTT	420
50	CGACTTCTTC AATATAGTGC GATGTATAGA GTATCGTTCG ATTATCTTCT TTTAAATTTT	480

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540

CAATAATTGA CCAAAAATAT TCTCTAATTT CTATATCCAT AGTCGATGTT GGTTCATCTA

	(2) INFORMATION FOR SEQ ID NO: 1277:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1277:	
	CTAAAnTAAG GTAATAGTTA CCAAGTACCA TATCTTGTGG ATGGTGTACT ACAGGTTTAC	60
15	CATCTTTAGG TTCAAGATGT TTTGATGACT GCTAACATCA ACATTCTTGC TTCAGCTTGT	120
	GCCTCTTTG A	131
	(2) INFORMATION FOR SEQ ID NO: 1278:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1278:	
•	GTTTGCGATA TTTTAGGCAG ACAACCTAAC TTTACAGAAA CAGGTATCTT TTCTGTTATG	60
30	TGGAGTGAAC ATTGCTCTTA TAAACATTCT AAACCGTTTT TAAAGAATTT CCTACGCAGG	120
	TGCCATGGTT TGGGCTGGAG TCAGGTGCGT TGTGTATAGC TGATNA	166
	(2) INFORMATION FOR SEQ ID NO: 1279:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 418 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1279:	
45	CATAATTATG AAAATGATAT GATTTTATT AGACCATTTA AAAAAGCATA ATTTAAATCG	60
	AAGGCAGGAC ATTGAAATAT GAAATTTTCA ACTTTAAGTG AAGAAGAATT TACCAACTAC	120
	ACCAAAAAGC ACTTCAAACA TTATACGCAG TCTATAGAAT TATATAATTA TAGAAATAAA	180
50	ATAAATCATG AAGCACATAT TGTGGGAGTG AAGAATGATA AAAATGAAGT TATAGCTGCA	240
	TGTTTATTAA CAGAGGCACG AATTTTTAAA TTCTACAAAT ATTTCTACTC TCATAGAGGT	300

	ATTCATTTAT AAAAATAGAG GAGTATTTAT TCTTGTTGAT CCATATHTAA TAGAGAAT	418
	(2) INFORMATION FOR SEQ ID NO: 1280:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 449 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1280:	
15	GACATATCAT AAATTACATG GTGATAAAAT TnTCGGCTAC GATACTAACG GATTCCCGAT	60
	TACCTGGTTT TATCCATTAG GTGAAAAGAA AGTTGAACGT AAGGCACCAA AATTAGAAAA	120
	ATAATTAAAT AAAACAGCTT AATGATGTAA TGAAATTAGT GAGTTAATCA CTGACTTCTA	180
20	CGTCATTGAG CTGTTTTTTT GTGCTTTGTT ACAAAGCATT ATTGAATTTA TTTTACGTGT	240
	TCATAȚTTTG AAACATCAAA GCCGTCTTGT TTAGCTTTGT TGATAATGTC TTTGATTGAA	300
	TGTAGTCCTT TATCGGCGAA GTATGATCTT AAGTTGTCTT TTGTAGCTTG GTCAGCATTC	360
25	TTATCTAATA ACACATCAAT ATAACTTAAT TCATGTTCTA AGAAGTTTGC ATCATCATGT	420
	AGTACGAGTC CATTTTGAGA ATAAACTTT	449
30	(2) INFORMATION FOR SEQ ID NO: 1281:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1281:	
40	TATTTATATG TACTGATGAT GAAGTTTATT ATCTATCAAG TGGATCAAAT CCGAAATATA	60
	ATCAGTATAT GGGTGCATAT CATCTACAAT GGCATATGAT AAAATATGCA AAATCACATA	120
45	ATATTAATAG GTATAATTTT TATGGAATAA CAGGCGTCTT TAGTAATGAG GCGGATGATT	180
40	TTGGTGTTCA ACAATTTAAA AAGGGTTTTA ATGCACATGT TGAAGAATTA ATTGGTGATT	240
	TCATCCAACC AGTAAAACCC ATTCCAATAT TAATnTGCCA AACCTnAAT	289
50	(2) INFORMATION FOR SEQ ID NO: 1282:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 402 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1282:	
	ATTCAGGTCG AGGTGGCCCG GCTCCATGCA CCGCGACGCA ACGGGGGAGG CAGACAAGGT	60
5	ATAGGGCGGC GCCTACAATC CATGCCAACC CGTTCCATGT GCTCGCCGAG GCGGCATAAA	120
	TCGCCGTGAC GATCAGCGGT CCAATGATCG AAGTTAGGCT GGTAAGAGCC GCGAGCGATC	180
40	CTTGAAGCTG TCCCTGATGG TCGTCATCTA CCTGCCTGGA CAGCATGGCC TGCAACGCGG	240
10	GCATCCCGAT GCCGCCGGAA GCGAGAAGAA CTAATTGATA CAACACTTTC TCAACCTGAT	300
	CTTCTTTACC TTCTACATAG CGCGTGAGCA GAACCATCTT GATGGCACAG CTAAATAATG	360
15	CaATgGGAAT GATGTATGAC ATTCGGGGTG CATAATTTCT CT	402
	(2) INFORMATION FOR SEQ ID NO: 1283:	•
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1283:	
	TATTGACAAC CAGAGTACAA ACAGCAGCTA TATTATAGAC TTAGGTCTGA AGTGGTAGTG	60
30	GCGGTGGACT ATTGTTGCGA CTGGACACCC GAGATATTGC TCAGCAnAGC ATCATATACA	120
	GGAAGTATTA AAAGAGACTT GnCGAGTAAC AAATACTGAA GTAATAAGAT TAAAAGAGTG	180
	AGGTGTATAA TTATCCTCGT TCTTTTATAT TAGTATGATA GAGA	224
35	(2) INFORMATION FOR SEQ ID NO: 1284:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1284:	
45	CGTGGGAGAT TGTGCATATT GATTATGCAA GGAAGNACGC CATAAAAGTG GATGGCCAGA	60
	CATCATTAAT ATTATTGATA CCACATCAGA AGGTATTCAA AGTGAATCGG TGATAAGTGA	120
50	ATCAATTAAG TCTGCCAAAG AAAAGA	146
50	(2) INFORMATION FOR SEQ ID NO: 1285:	

5	(A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1285:	
10	ATTTCGCGTG ACTGGACTTG GATCCGCAAC TTGGTAATTT AAGGAATTCT TGTCATTATA	60
	AGCCCTCCAT TTCATGATTT GATTTGCCAC TCGGTAACCA TTGGGGTTAC AGCTTCACTA	120
	GGGGANATAC GAACCTC	137
15	(2) INFORMATION FOR SEQ ID NO: 1286:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 594 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1286:	
20	GCTATTGATT ATGGTTAGCm TGTTGTTCwC TTTACTCATT GTTCCTTGGt TAAGCTCrAA	60
	AAAAGCACGT ACTTTAAAGA AACATGCAGC TAATGAACAG GCCCGATTTT TAAATCATTT	120
30	TTATGATTAT AAAGCTGGTA TGGATGAACT ACGTCGATTT AATCAAATTA ATCATTATCG	180
	AGATAATTTG ATGGCTAAAT TAAATCATTT TGATAAATTA CAACTTAAAG AGCAACGCTT	240
	TTTAACGATT TATGATTTTA TATTAAATAT TATTGCTATG CTTTCGATTT TTGGTAGTTT	300
35	AGTTCTAGGA TTAATTCAAA TTAATGCAGG CCAACTAAAT ATTATTTATA TGACGAGTAT	360
	AGTTTTAATG GTCTTAACTT TATTTGAACA AGCTGTACCA ATGACAAATG TCGCGTATTA	420
	TAAAGCGGAT ACTGACCAAG CATTGCACGA TATTAATGAA GTGATATCTG TACCTTCTAC	480
40	TAATGGAAAA AAACGTCTTA ATGATAAGTA TGATGCAACG AACATTTATG AAGTTAAGGA	540
	TGCTAGTTTT AAGTATTGGA ATCAGCAAAC GTATGTnTTG TCGGATATTn ATTT	594
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

1906

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1287:

	TGAAGTAGTA ATAAACCCGG AACCCTAAAA CTGGATGGAG GATGAAACCA AAAAGGAACC	120
5	AGCCAAGCCA AATTGGGGAA ACCAGGACGG CCCAATGGAG GTCCAACCAA TCCAAACCCC	180
	ATTCCGCTAA TGnCTATGGG TCCCAATTAG GAATCCAATG GATGGATGGA TTn	233
	(2) INFORMATION FOR SEQ ID NO: 1288:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1288:	
	AATCCCTGTA CGTTCGTAAA GCTAGCTGGn TAATAAAAAA GAGTCTGGAA AGTAGGCAAC	60
20	AATCAATGAC AATGAGCAGA TCCAATCGCA GTATGCTTAC TCGTGTAAGA AACGCAAACA	120
	TGGTGCGTCA CG	132
25	(2) INFORMATION FOR SEQ ID NO: 1289:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1289:	
: <i>35</i>	TATCTGATAA TTCTGTACCC AGGCGTTTTA ATATGTTTAT CTGGTGTCAT GATACATAAA	60
	CATTGTACCT TTAGGTCATA CGATGTCGCA AATAACTGCT CTTGCCGTTA CAACACCATT	120
	ACGGTTATAC ACTINTAGCC AATCATTATC TGGG	154
40	(2) INFORMATION FOR SEQ ID NO: 1290:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1290:	
	AAAAGTGGCA CATGCGGCTG TAAAGTCCTC TGTTTCTGAT AAATCATAAC CTATATACAT	60
	GTCTACCTTC CAACTCATCT AAGAAATAAG TCATATTTTT TTGAATGTTG GATAATCAAT	120

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	(2) INFORMATION FOR SEQ ID NO: 1291:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1291:	
	CTTAATGCTA TATATTCTTT GTTTTTGATA CCATTTCATC GTCTTCTCTT GATTTCTAAA	60
15	CAATTTAGAA AATAAAAGAA TATACGCTTC AGACTTATTA AAACCCGCTA TATCATCTTG	120
	ATATTGTATT AACAATTGAG TAAAGCTGTG TATTAAGTCA TCTTTCTTCG ATGCAATGGT	180
	AGTTAATGAT TTTACACGAT AAGCATATTT ATCTGTAAAT AACTTAGCAA CTACCCCACC	240
20	TAAATCATGT CCTAGAATAT GTGCCTCATG AATATTTAAC TTCTCCATTA GAATTTTTAA	300
	ATCCTCAACG TGATCGTTTA AATCGTATGA TTCACTTTTA GAAGACTTGC CATGACCTCT	360
25	(2) INFORMATION FOR SEQ ID NO: 1292:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1292:	
	TGTGTTAGTT GTTTATGTTG TTGATATATA CTGCTCGTGC ACATGGTACC CAGACGATTC	6
	AACGNTGAGT ACACAAAATA CAAAATCTAC GGCACATGGT ACCGTTTATA AAAGATGTGG	12
40	AACCTTACTA GCATTTGTTG AGAACGCTAC ACGTTTAAAT CAAG	16
	(2) INFORMATION FOR SEQ ID NO: 1293:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1293:	
	TTAATTTTCT ATATATTTCT TAGGTTATAT TGGTATCTAT GCCAGTAAGT GACATGACGT	6
55	TAGATCATTG AATCCAAGAT CGAHACATTG GGACATATTT ATTAACGACA TGGCTTCAAC	12

	(2) INFORMATION FOR SEQ ID NO: 1294:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1294:	
	GTCATGCnTA ACAGGTGAAT ACCTAGTAAT TCAGATATTA TCATTTATAT ACCCTCTTAT	60
15	ATTTTAGTGC ATTATCTCGA AATCGAGATA CTTAATGTAA ATTTTTAGTG CAGCCTACAC	120
	TTCGTGATTG GGCANTAGTT CTTAAACGCT GTGGTAAGAT GTTAATTCAT CCTTGGTTAA	180
	CACACAAACG CTTGGTTAAT GCTCAGCAGC TAG	213
20	(2) INFORMATION FOR SEQ ID NO: 1295:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1295:	
	AAGAAGTTTG AAGTCTATGA AAACAATCAA AAATTGCCAG TGAGACTTGT ATCATATAGT	60
	CCTGTACCAG AAGACCATGC CTATATTCGA TTCCCAGTTT CAGATGGCAC ACAGATGAAA	120
35	TGTTTCTCGn CCAATGAGAG GGAGAACATA GTATCAATAG ATG	163
	(2) INFORMATION FOR SEQ ID NO: 1296:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 207 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1296:	
	TAGCTTTAAT ACATTCTGAT TTTTAAACGC TTCGAAATGT TTTCAGTAAC TAATTTTGCC	60
50	ATAATCCCAA AAACTCCTTG ATTATTAACT GCnTTTTGAT TGGCTACATT AAGGCTTTAT	120
	ACACATCAGC TCACCATGCC CATATCTACT AATGGTTATA TCCCTAGAGT CCCAGCGATA	180
	TAACATCAAC GCTTACnGGA GTTTCAG	207

5	(A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1297:	
	ATGGCATCGG TTGGTTATGA AAAGnCAAGC CATGGGGAGG CCATATTTGG GGTGGAATCA	60
	TACCTGGAAC CTTTGGTGCC TACCACCAAT TGGTAACGGT TTTACCATCG GATTTTTAGT	120
15	GATACAGCGA TATGTTTTGT ACAGG	145
	(2) INFORMATION FOR SEQ ID NO: 1298:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1298:	
	TCCAAAAGTT AAAGGTCAAT TGAAACAGAn AAAGCTTATT ATGTCTGGAA AAGTATTAAA	60
30	AGTAATGGTA TCAAATGACA TTGAACGTAA TCATTTTGAT AAGGCATGTA ATGAAGTCTT	120
	TCAAGCGTTG AATTGTGGT	139
	(2) INFORMATION FOR SEQ ID NO: 1299:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1299:	
	GATATTGGCA ACCTTCAGCC GATGACCTCA TGGCAAATGA TTGGGAAGTT ATAAACCCAA	60
45	CTAGAGACCA GGAATTATTG AAGCAATTAT AGAAATGCTA TCAATGATAC TTTTTAAATT	120
	GTTTTTAAAC TCATTTTCAA AGTAAACAAC AGTCTTGTCT GAAATTGTTA CATGATAAAT	180
50	AGTGTTACTA GCATACACGC CGTTTAGGAA CCCAGAGTTT TTAAGTTTAT TTAAATCGTA	240
	TTTTACATCT TCGAAATGTA GTTTTTGAAA ATACTTTGTA TGTATATCTT TAGCACTTCC	300
	AAAATTTATT GGCAGGTTAA TTTAATCGAA CCTAACTTTA CACATTCTAA ATAATCTTTG	360

(2) INFORMATION FOR SEQ ID NO: 1300:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 693 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1300:	
	CTACAGTGCA ATTTAACCAT GAAGTTGTTG ATTTTGAACA ATTATCAAAT GGTCAATGGG	60
15	AAGTTACTGT TAAAAATCGC CTAACTGGTG AGAAATTCAA ACAAGTAACT GACTACGTAT	120
	TCATCGGTGC TGGCGGTGGA GCAATTCCAT TATTACAAAA AACAGGTATC CCTGAAAGTA	180
	AACATTTGGG TGGATTCCCT ATCAGTGGTC AATTCTTAGC TTGTACAAAC CCaCAAGTTA	240
20	TTGAACAACA CGATGCCAAA GTTTATGGTA AAGAGCCACC TGGTACACCA CCAATGACTG	300
	TACCTCATTT AGATACGCGT TACATTGATG GTCAAAGAAC ATTATTATTT GGACCATTTG	360
	CTAATGTTGG ACCTAAATTC TTGAAAAATG GTTCTAACTT AGATTTATTC AAGTCTGTTA	420
25	AAACATACAA CATTACAACT TTATTAGCAG CAGCAGTnAA AAACTTACCT TTAATTAAAT	480
	ACTCATTTGA CCAAGTAATT ATGACAAAAG AAGGTTGTAT GAACCACTTA CGTACTTTCT	540
30	ATCCAGAAGC ACGTAATGAA GATTGGCAAT TATACACTGC TGGTAAACGT GTACAAGTTA	600
	TCAAAGATAC ACCTGAACAC GGTAAAGGAT TCATCCAATT CGGTACAGAA GTGGTTAACT	660
	CACAAGACCA CACTGRAATT GCATTATTAG GTG	693
35	(2) INFORMATION FOR SEQ ID NO: 1301:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 471 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1301:	
	CATACTTGGG TAATGCTGCC CATGGnACGC TGGnACAAGG TAAAGTTGCA CGTTTAATTT	60
	GTGNATGTAT ATAAAACAGA TGGGAACACC ATTTGAAGGG GATCCTCGTG CAAACTTAAA	120
50	ACGTGTATTA AAAGAAATGG AAGATTTAGG CTTCACAGAC TTTAACCTAG GACCTGAACC	180
	AGAATTCTTC TTGTTTAAGT TGGATGAAAA AGGGGAACCA ACTTTAGAAC TTAATGATGA	240
	TGGTGGATAT TTCGATTTAG CACCTACAGA TTTAGGTGAA AACTGTCGTC GTGATATTGT	300

	TCAACATGAA ALTGACTTAA ATATGCAGAT GCTGTTACAG CATGTGATAA TATCCAAACA	420
	TTTAAATTGG TTGTTAAAAC AATCGCACGT AAACATAATT TACACGCAAC A	471
5	(2) INFORMATION FOR SEQ ID NO: 1302:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1302:	
	CATGTGATTA AGAACGTTCA CTGATGAATT TTTGATGATC GTTCGGTTTT TGTTTGGATT	60
	TTAATGATTA TTTATACAAA AACAGCCGTA TTTCAAGCCG TACATTTTAA ATTTAACTAA	120
20	ATTTGCATCT AGTTAATAAT TGCATTTATC AAATTTGTCT TATTGATCCA ATCTAATTTG	180
	TACTCACAAA CTAGTTTYAA ATTCTAACTT TATCTCTCAG TTCGTTATCA ATCATCAGAC	240
	ATAAACCAAT GAAGCAATCA GAAAACACTC TAATTTTCTa TTAGAAATTT GnTTTAATAT	300
25	AAAAAAACAG GCTTACTTCA TATAATTTAT GAAATAAACC CGTCAATTTT TGTTTAATAT	360
	GCTTGGTGAT CTnTTATTCT GCGTAATAAT GCTAAACCTG	400
30	(2) INFORMATION FOR SEQ ID NO: 1303:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1303:	
40	AAAAGCTTAG TTGAACTTTC AACGTATCTT AGCTACTGAA GGTGCAGAAG TTTTAGAAGC	60
	AAAAGACTGG GGTAAACTnC GCCTAGCTTA TGAAATCAAT GGATTTCAAA GATGGGCTCT	120
45	ACAACATC	128
43	(2) INFORMATION FOR SEQ ID NO: 1304:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 141 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

	TCCTTCGGAT TCTAAATGGC ATTGGACAGT GTTTACAAGC TCGCATTTCT CCACTTTTTG	60
	CAATTTCTTT TACAATTTCT AAAGCTTCAT CAAAGTTTCC TTCAATAGNA AACGATTTCT	120
5	GCACCATACA TTACTGACTT G	141
	(2) INFORMATION FOR SEQ ID NO: 1305:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1305:	
	GACTGGTAAA CACTAAGTGA ATTAGCTGGA CAATGAAAAA TATCCACAAT CATTAATTAA	60
20	CGTACGCGTA ACAGATAATA TCGGTTGAAG AAATGTTGAC GTTAAGAGTT ATGACTAART	120
	AGAGTAGAAT GATGGTGAGG TCGATTTTAG TAGACTCTGG AC	162
25	(2) INFORMATION FOR SEQ ID NO: 1306:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1306:	
35	TTCTTAGTTG CTCGAACTAA TAATTTGCTT AATAATGATS TAGCTGTTAT TGTGTCATAT	60
	TCTAAAGGTG CCATAAATTT AAAAACTATA GTAGTTGTTT TAAATTTAGT TGTTGGTGAA	120
	ACTITGATAT GTATATITGG TIGAGATIGI CTACTCAAAT ATATAGCCTC CTCTATATCT	180
40	TCTTACATCT ATATTTTTCT AGTGATTTTA AATTGAACTA AGCTATTTTT CATATAATTT	240
	AATGAATACA AAATAGGTTC ATCTGATTCA TTATAGTGCG TA	282
45	(2) INFORMATION FOR SEQ ID NO: 1307:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1307:	

	AAGGAAAAAA CCCTTGGCCT TTGGAAAAAA CCCAAAAGGA AAGGGGTTTA AAAAAAAAA	120
	AAGTTTAACC CGGTTGGCCC CAATTCCCGC CCGGGGAACC CAAAAGGAnT TTTAAAAAAG	180
5	GAAACCCAAT TCCCGGCCGG AAAAGGGTTT TTAAGCCCAA CCGGATTTTA AGGAAAACCA	240
	TTTTAAGATT ACCTGGGAAA AAAAACCGTT TAGGAA	276
_	(2) INFORMATION FOR SEQ ID NO: 1308:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 692 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1308:	
20	TGTATTTAAT GCTCGTACAC ACAATTACAA AACTGCAAGA GAAAAAGCAT TGAGTAATAA	60
	TCATATTCCA GAAAATGTAT ATGACAATCT AGTAAAAACT GTACATAAAT ATTTACCATT	120
	GCTACATAGA TATACTGAAT TGCGCAAAGA ATTGCTAGGT TTAGATGACT TGAAAATGTA	180
25	TGATTTATAT ACACCATTAA TTAAAGATAT TAAGTTTGAA ATGCCTTATG AAGAAGCTAA	240
	AGAGTGGATG TTAAAAGCAT TAGAACCAAT GGGTGAAGAA TATTTAAATG TAGTTAAAGA	300
20	AGGCTTATAC AATCGTTGGG TCGATGTCTA TGAGAATAAA GGTAAACGTT CAGGTGGCTA	360
30	TTCATCAGGT GCACATTTAA CTAATCCATT TATTCTACTT AACTGGTCTA ATACTATTTC	420
	AGACTTATAC ACATTAGTTC ATGAATTTGG GCATTCAGCA CATAGTTACT TCAGTAGAAA	480
35	ATTCCAACCG TCAAATTCLA GTGACTACAC TATTTTTGTC GCTGAAGTTG CATCAACTTG	540
	TAACGAAGCA CTTTTAAGTG ATTATATGGA TAAACATCTT GATGATGAAA AACGCTTATT	600
	ATTATTAAAC CAAGAATTAG ANCGTTTCAG AGCTACATTA TTCCGACAAA CAATGTTCGC	660
40	AGAATTTGAG CATAANATTC ATGCAATTGA AG	692
	(2) INFORMATION FOR SEQ ID NO: 1309:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1309:	
	CCACTATTCG ATGATAGCTT TTTTGACTGG ATTTACTAAA ATGAAAGCAA GTACTATATA	60

	atcgagtaat atctatatat gacattttaa a	151
	(2) INFORMATION FOR SEQ ID NO: 1310:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1310:	
15	TGTGCATTTG ATAATATTCA CTATGATTCG TGGTCATTCA CATCGTCTAC GCTCACCGGT	60
	CTAAACGTAC CTAACCCAAC ATGTAATGAA CAAATGCGAT ATTAACACCT TTATT	115
	(2) INFORMATION FOR SEQ ID NO: 1311:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1311:	
30	CACCCAACTG ACCTCAATGG TATAATGCAT TTGTGAATAC CGAATATCAT TGGAATATCT	60
	CCTATCATAG GAATATAATA TGTATATATC TTCGTAATCn TGTTCATTTT TAAGAAAATC	120
	AATAGAAGTG TATCGATTAA AACTACATTT GAACCATTAC TTTG	164
35	(2) INFORMATION FOR SEQ ID NO: 1312:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1312:	
40	GAGGAAAATC GAAGTGAAAT TATTAAAATA TGGCGATGGT GGAATACGAA TAGATGGTGG	60
	TTTAATAGGC GGCTTTATTC GGGTGTTATT GTATGTAAAG TGAAAAATTT AAnCCCATTI	120
50	CAAATTGGTG ATATCGTTGC G	141
	(2) INFORMATION FOR SEQ ID NO: 1313:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1313:	
	AATTGGTATT ATGCATAGTG CAATGGATGC TGGTATTAAA nTCCAGAGGA TTACAATTAT	60
10	TAGTTTCAAT AATCACGATT AGTTGAGATG GTTAGCCACA ACTTTCTAGT GTATCACCAT	120
	TATATGTATC GGT	133
	(2) INFORMATION FOR SEQ ID NO: 1314:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 629 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1314:	
	TTGCAATTAG AATGCTGTTT CACCCCTTTA AACCATACTA TATATTTAAA TTTAGAGTCC	60
25	CATTTACACC AGGTTTAATA CCGAAAAGAC GCGAAGAAAT TGCAACTAAA ATTGGCCAAG	120
	TGATTGAAGA GCATTTGCTT ACAGAAACTT TAATTAATGA AAAATTGAAA AGCGAGCAAT	180
30	CACAGCAAGC AATAGAATCT ATGATTCAAC AGCAGTTACA AAAGTTGACG AAAGATCAAT	240
	TGTCAATAAA ACAAATTACT TCTCAAATCG LATTGATTTA GAACAAGTAT TACAAACTAA	300
	TGGAAATCAA TATATTGAAT CACAATTGAA TAATTATTAT aCAAAGCATC AAAACCAAAC	360
35	AATAGCATCT TTATTGCCAA ATCAACTTGT AACATTTTTA AATCAGCATG TAGATAACGC	420
	AACAGACTTA TTATGTGATC GTGCAAGGAA TTATTTATCA TCTGCAAAAG GCACACAAGA	480
	TATTAATGAT ATGTTGGATA CTTTTTCAA TGAGAAAGGT AAGTTAATTG GTATGTTGCA	540
40	AATGTTTATG ACAAAAGAGA GTATTGCAGA TCGCATTCAA CAAGAACTTA TACGTTTAAC	600
	ATCTCATCCT AAAGCAAGAA CAATTGTGA	629
45	(2) INFORMATION FOR SEQ ID NO: 1315: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs	
50	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

1916

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1315:

	ATACAGGTAC GTTCGTTATC AATGGTGCAG AACGTGTAAT CGTATCTCAA TTAGTTCGTT	120
	CACCATCCGT TTATTTCAAT GAAAAAATCG ACAAAAATGG TCGTGAAAAC TATGATGCAA	180
5 '	CAATTATTCC AAACCGTGGT GCATGGTTAG AATATGAAAC AGATGCTAAA GATGTTGTAT	240
	ACGTACGTAT TGATAGAACA CGTAAACTAC CATTAACAGT ATTGTTACGT GCATTAGGGT	300
	TCTCAAGCGA CCCAAGAAAT TGnTGACCTT TAAGGGGACC AATGGAATAT nTACCGTAAT	360
10	ACCTTTAGGA GGAAAGACCG GCACCTGAAA CCACTGGAA	399
	(2) INFORMATION FOR SEQ ID NO: 1316:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 778 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
?0		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1316:	
	ATAAACATTT TAANATGTAA TTNAGAAATT TTTTTAGTAC AAAATCTTTC TTAATAATGA	60
?5	TTAAGGAGGT CAGTAATGAT TGAAATTAAA ACATTAACGA ATAATGATTT TAATGAGTAT	120
	AAGAGACTTG TTTCGACAGT CAATGAAGAA TTCACTCAAG ATTCACATTA TAGTCAAACA	180
30	ATGACLGACA CCTTAATACA TGACATTTTA AATCAAGGTT CACCGAAATG TATTGTATTT	240
,,,	GGCTGTTATG AAAACGAAAC ACTTATCGCA ACAGCTGCCT TAGAACAAAT TCGATACGTT	300
	GGAAAAGAAC ATAAATCATT AATTAAATAC AACTTTGTTA CTAATAACGA TAAATCGATT	360
35	AATAGCGAGC TCATTAATTT CATTATTAAT TATGCACGGC AGAACAATTA CGAATCTTTA	420
	CTTACATCAA TTGTGTCAAA CAACATAGnn GCTAAAGTTT TCTATAGTGC ACTAGGATTC	480
	GACATTCTTG GTTTTGAGAA AAATGCAATT AAAATCGGAA ATACCTATTT CGATGAACAT	540
10	TGGCTTTTT ATGATTGAT TAATAAGTAA TACAGTTTTA TATATTCTAC rTTTCTCATA	600
	AATTCAAATC ATATAGGTTC TATTTTTCAT ACAACTACTC TACTATTGAG TAGTTGTTTT	660
	TTATTTGATA TGATAACAAT AAGTTTTTTT CAGAATATTC TATGTTTTAG GGGTGTCAAA	720
15	ACTTAATGGG TAACCGCAAT TATTCATGGA nTTATCnTAA GCGATTGGGT CCTAANTT	778
	(2) INFORMATION FOR SEQ ID NO: 1317:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 465 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1317:	
	TGCACAAGGT GGTGCAGCAA TTGCAGCGTT CTTTATTATT AAACAAAATA AGAAGTTAAA	60
5	AGGTGTGGCA TCTGCCGCAG TATTTTCAGC ATTACTTGGT ATTACAGAAC CGGCTATGTT	120
	TGGTGTTACT TAAAACTAAG ATATCCATTT ATTGGCGCTA TCGTTGGATC AGGTATTGGT	180
10	TCAGCATATA TTGCTTTCTT CAAGGTTAAA GCAATCGCAT TAGGAACTGC TGGATTGCCA	240
	GGATTEATTT CAATCAATCC AGTACATGCA GGATGGTTAC ACTACTTTGT TGGTATGACA	300
	ATATCATTCA TCATTGCTAT AACAGTTACT TTAALTTTAT CLAAAAGAAA AGCAAATAAA	360
15	GAAGTTGTAG AATAAAAAA GAGGTATGAC AGTAATCAAA GTATCAGTCA TTGCAAATGC	420
	AATAGGATGA AACTITAAGC TGTCATACCT TThAATTTAG TTATA	465
	(2) INFORMATION FOR SEQ ID NO: 1318:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1318:	
	GACTTAATAT AACTGATCTT TTGCTATTAT TGAAACATAT TTATAAAGAA AATAGCATTG	60
30	CATAATACCC AAGCAATAAA TACTATAATA TTTTGGAAGT AACTAATCAA ACATCTAAGA	120
	CATGATTGAT AnCACCACAG AAAAATAAGA	150
	(2) INFORMATION FOR SEQ ID NO: 1319:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1319:	
45	CCACCTTTTA ACGTACGTAT CCATGAATCA TATGATTAAT TTAATATCAT TATTACTTAT	6
	TTCTTATCTT TATTnTCTTT TTTTCTTCTG AAAAGTAGTA ATGAACCTAT TGATGCTAAT	12
50	AATCCCCAAA T	13
	(2) INFORMATION FOR SEQ ID NO: 1320:	
	(i) SEQUENCE CHARACTERISTICS:	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1320:	
	TAGTGTCCAA ATGAAAGTGT GGCTACCTAT AGCTGGTCCA TGAAGCTTTA TTTTTAACTG	60
10	GTTTGTACAA TATTTAAATA TCAAAATCTT CTCGCGnTTT GGACAGTTTT TTTGGTATTA	120
	ACCATTAATA AACGGAAAGA	140
	(2) INFORMATION FOR SEQ ID NO: 1321:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1321:	
25	CTTATTATAT AATTCTAATC CTAGTACATT ATACATTTTA TCAAATAGTC AACTGGATAA	60
	CTTTGAAAGT GAATGATnCT TTTAAAATAA AGAAGATAAT ATAAAGTGCT TGATAATGGA	120
	TTTGTAGTTG ATGATTTAAA	140
30	(2) INFORMATION FOR SEQ ID NO: 1322:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 185 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1322:	
	TCGTTGCAAC ACAGGCACTA TTTTACCTTT ATATGTTGTA ATAGTTTGAT TGCTGCCATT	60
	TAAACAACCA CCTTTCTTAC TCCACAAATT TACCATGAAT AGCGCGCGCG CCATAGCGGG	120
45	ATACTAAAGT GTTCTGCACC TTGCCTGTCT CCTTCAAnTT TCGATTACTG TAGAGCACAA	180
	GTACG	185
	(2) INFORMATION FOR SEQ ID NO: 1323:	
50 55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1323:	
	ACCTGCAATT TTCGTTATTC AAAACAATAA CTATGCAATT TCAACACCAC GGAGCAAGCA	60
5	AACTGCTGCT GAAACATTAG CTCAAAAAGC AATTGCTGTA GGTATTCCTG GGTATCCCAA	120
	GTTGGTGGTA TGGTGCGGTA nTTGGTTT	148
10	(2) INFORMATION FOR SEQ ID NO: 1324:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1324:	
20	GAAAGCATTG ATGGACAAAG ATGAACCACC AAATGAATGG CGATTAGATT CCAATTGATA	60
	TGGCTCACGG AAAATTTATG CTACAATTGC GTCCAGTAAA CAGTGGCACT AATAGTCCAC	120
25	TTANGCTCCC TAGTGGATGA A	141
	(2) INFORMATION FOR SEQ ID NO: 1325:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1325:	
••	TTATACTATC GTGAAGGGTT TATTACTCAA TTAATGCCTA AAAAGGATAA AAGTTATTTA	60
	GTTATTGATA ATTTTAATCG TATAGATACA GACATTTTCC AAACGTATAT TAATGTGTTA	120
40	GAAGGCTATG AAGTAACATT ACCACGTTAT AATAAAGACG GTAATATGAT TAAATGGTCA	180
	CGACAAAAG ATTCTTTCTA TTAT	204
45	(2) INFORMATION FOR SEQ ID NO: 1326:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(vi) SEQUENCE DESCRIPTION: SEQ ID NO: 1326:	

	TITGITAAAA GTCTTCATTT CGGATGAAGC TTTATCTATT GAACGCTCCA AATTATTTAA	120
5	AGCAGCTTTT TCTTTATTAA CAGCTGT	147
5	(2) INFORMATION FOR SEQ ID NO: 1327:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 530 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1327:	
	CATTNAATGA AGAAACTGAA CCCNGAACTA TACGACGCAG AAGGCAATTT AATTAATAAT	60
	AGTAAAACAT CCAGCTTAAT CCATTGATGT GTTATAAAAG TGAAAAGCTC CAATCAAAGT	120
20	TGACGCTCAA ATAGTTTAAC TTTGATCGGA GCTTTTTTAT AATGTATACC GAAAGGTTCA	180
	AATATTATAT AATGGTAGAA TTGAAAGAGA ATATAAAAAA GTGAGGATAT AAAATGAAAG	240
25	TTAATCCTAA TAATATAGAA TTAATCATTA GTGCAGTAAA AGAAGAACAA TATCCAGAAA	300
	CAGAATTGTC TGAAGTGCAC TGAGCGGTCG ATCTAATGTA GGTAAGTCTA CATTTATCCA	360
	ATAGTATGAT TGGCAGAAAA AATATGGCAC GTACATCACA GCAACCCGGC AAAACGCAAA	420
30	CGTTAAATTT TTATAATATA GATGAACAAC TTATTTTTGT GGATGTTCCA GGGTATGGAT	480
	ATGCTAAAGT AAGTAAAACA CAACGTGAAA AATTTGGGAA AATGATTGAG	530
	(2) INFORMATION FOR SEQ ID NO: 1328:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	,
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1328:	
45	AAGAAAGTTT GATCTAGGCC AACCTTTCTA ACAACGATAC GACAGTTTAA TAATGTCTCA	60
	TATCTTGACT TCCCATGATG ATATGGTCGT TAATCACATC AATGACTTAA ATCTGGATNA	120
	ATAGATGCGA ATGGATCTTG AAAAATCATT GTA	153
50	(2) INFORMATION FOR SEQ ID NO: 1329:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1329:	
5	TGTAGTTCGT TTGTGCTCTA ATTAAACGGT CGAAACCATG GATTAGACCT GCGATTACAA	60
5	CTGCAATGAT ACCTGAAGCA TGAACTTCTT CTGnTAAAAA GTATACGACA AAAGG	115
	(2) INFORMATION FOR SEQ ID NO: 1330:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1330:	
	AACAAGTTAT CTACATCTGC TGATAGGCAT ACTATTACTA ATAAATAATG CATCTTTTTG	60
20	CCAGATGTTT TCTTAATCAA TTGCACCAAC GAATGGCACT CTCATCTGTA Gn	112
	(2) INFORMATION FOR SEQ ID NO: 1331:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 203 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1331:	
	TTCATTGCAG ACAnTTGGTG AACCATGTGG ACGAACTAGT CCTAGATTAA GATAAGAGAT	60
35	TAGTGANCAT TGCCACCACT GCAATTAAAC ATTCTTGGAA AAATTAACTT AAGTTAGAAT	120
	CTTAATGCAT ACAGATACGG CGAAGATGAT GCCAAAGAAC GTCACGACTT TATGATGATG	180
	ACTGAACCCA GTTTTTACGG AAG	203
40	(2) INFORMATION FOR SEQ ID NO: 1332:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1332:	
	ATGATGTACT AATATCTAAT AAGCTTGCTA AGTCTTGAGA CCTCATTTTA ATCACCTTTT	60

	GACTATCTAT TTCTGTTAGT ACGTTTGACA TATTAATCAC TCCaCyTTAA CGCAATAWAW	180
	TTTAWTAGCG TTGGCTATTG TTGTTTAACG CGATGGNATT TACAACTTGT AACGTAAGAG	240
5	AATGAAAAAT AAGCTGnATA TGTTGTTTG	269
	(2) INFORMATION FOR SEQ ID NO: 1333:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1333:	
	TAGCTTTTGC CCAATATGGT GAATCATGCG CCGTTCTGTA ATAATCTTCA CTTGGCATTC	60
20	TTGGAATTTG AACAACATCC TGTTCATTTT TATAGAnTGC TTAAATGGTA CAGCTGAAAA	120
	ATCAAAGTAA TGTCCTTTTC TG	142
	(2) INFORMATION FOR SEQ ID NO: 1334:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1334:	
35	ACTGATGCCC AATATGCATC TTGnCAATTG CAGGTGTGCA TGACTAAACA CATGACAAAT	60
33	CTGCCTGACT TTTTGCTGAC CCATAAATAA TTGGnCTAAC TTTTTGCATC TTGATCTTGC	120
	ATCCTTGCCT TCCTATTTAA AATGCTACAA ATAAATTTGC CGGCGAGTGA ATTTTAATGT	180
40	TTTACAACGC TGTTCAATAC CTGGGAATAA G	211
	(2) INFORMATION FOR SEQ ID NO: 1335:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1335:	
	CTTGAATCTC TTGTGCCTCT GTGATGTATC ATCAAATTAT TTGCACTGCT TCTTCTTTTA	60
55		

	recerece	129
	(2) INFORMATION FOR SEQ ID NO: 1336:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 633 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1336:	
15	CATGATGGCn TCTTACCAAA GGCGATTTTA AGAGCAATGA TACCAAGATA TTTTTAATAC	60
	TGATCAAAGT TCAGGTGGTA GCACAATTAC ACAACAACTT GTTAAAAATC AAGTTCTTAC	120
	CAACGAAAAA ACATATAGTA GAAAAGCAAA TGAATHCGCC TAGCAATTAG ATTAGAACAC	180
20	CTACTCTCAA AAGATGAAAT TATATATACA TATTTAAATA TAGTTCCETC GGTAGAGATT	240
	ATAATGGCGC TAATATTTCC GGAATTGCAT CCGCTTCATA TAGTCTATTT GGTATTCCAC	300
	CAAAAGATTT ATCAATTGCA CAATCTGCAT ACCTTATCGG TTTGTTGCAA AGCCCATATG	360
25	GCTATACACC CTACGAAAAA GATGGAACGT TAAAATCGGA TAAAGATTTG AAATATAGTA	420
	TTCAAAGACA ACATTATGTA TTAAAGCGTA TGTTAATCGA AGATCAAATC ACTGAAAAAG	480
30	AATACAACGA CGCATTAAAA TATGATATTA AATCACATTT GTTAAATCGA AAAAAGCGTT	540
00	AATTGATGCT CACTTTTTAA AGTAACCACA ACAATGAATC CAAATATTAA AAACAGCAGT	600
	AAGATTATTT TCAATTAGAA AATTTCTCAC TGC	633
35	(2) INFORMATION FOR SEQ ID NO: 1337:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1337:	
45	ATCAATATT AGCAGTTATC ATTATGCTTG AACGGGTGGT AAAGGCGGAG AAGTCATCCA	60
	CTTTTCCTA TACTACAAGG ACCTTTACTT TAAAACAACG AATTTACAAA ATAAAAGGCA	120
50	TAATTTCTTT TCTGTCACAT CGCTCATTCT AACTACTAGA CTTTTAAAAAT CGTTCCTGTA	180
50	ATTTAAACTC AATCAACTnT CAATTAATGA TGCATAATAT GATTATAAGT ATAGTAGTTA	240
	ACTTCAAATA TCTTAGAAAT GTCCTGTACT ATATCTCTTT TATTCTCAAA AGTCATAGGT	300
55		

	(2) INFORMATION FOR SEQ ID NO: 1338:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1338:	
	TACGGCATAT ACCTCGTTCA TCAATGTTCG TAAACATTAT TTAAAACATC TCTTACATCT	60
15	TGCGTTGGAA GTTCTTCATA GTCGAATTTC ATTGTmTTAT CAAAGTTTTC CATTTGCGAC	120
	ACTCC	125
	(2) INFORMATION FOR SEQ ID NO: 1339:	,
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) TOFOLOGI: TitledI	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1339:	
30	GAGCTTCGTT CCATTGTTAT CAAACGATTG CCATTCTGAA ATGCTGTAAA TAGCATGCTT	60
30	CAAATCATCT TGTGCCTGCA GCAGTTTCTT TGnAATATGC TTCATATCAT T	111
	(2) INFORMATION FOR SEQ ID NO: 1340:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1340:	
	TCACACGTTT AGTTTTCTAT GAATACCAAT ATTTTAACAC CATGTTTAGC CAATTTGTCT	60
45	GCTAAATTAA TCGTGTTTGT CCTCCAAATT GACACGCACC TTTAGTTTTT CTAAATAATG	120
	ATATCATCAC ATCTCTCAGT TAAAGGTCAA ANATATTG	158
50	(2) INFORMATION FOR SEQ ID NO: 1341:	
<i>J</i> 0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	· ·	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1341:	
5	GCTTCAGGTC AATTAAAACG TTCAAGAGCT TTCACATCTC ACTTATTCGC AAACAAGAGC	60
5	ACTAAACAAA AACGTCAATT ACGTAAAGCT AGATTAGTGT CTAAGAGCGA TATGAAACGT	120
	GTAAAACAAT TATTAGCATA CAAAAAATAA GAACAAATAC AGAAATCGGT AGGAATTACC	180
10	TAAGGAGGAA TTTTTTATGC CACGAGTTAA AGGTGGAACA GTAACAAGAG CGCGTCGTAA	240
	AAAAACGATT AAATTAGCTA AAGGTTACTT CGGTTCAAAA CATACATTAT ACAAAGTAGC	300
	TAAGCAACAA GTAATGAAAT CAGGTCAATA TGCTTTCCGT GACCGTCGTC AACGTAAACG	360
15	TGACTTCCGT AAATTATGGA TTACACGTAT CAACGCAGCA	400
	(2) INFORMATION FOR SEQ ID NO: 1342:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1342:	
	GTTGAACAAG GGCAACAAAA ATTTCGAGCG AAACAGATTT TTGAATGGTT ATATCAAAAA	60
30	AGAGTAGATT CGATTGATGA AATGACGAAC TTATCGAAAG ACTTACGACA GCTTTTAAAA	120
	GATAACTTTA CTGTTACAAC TTTAACAACT GTAGTAAAAC AAGAAAGTAA AGACGGTACA	180
	ATTAAATTCT TATTTGAATT ACAAGATGGC TATACAATTG AAACTGTTTT AATGAGACAT	240
35	GATTATGGAA ATTCAGTATG TGTAACGACA CAAGTAGGTT GTCGCATCGG ATGTACGTTT	300
	TGTGCTTCTA CACTTGGCGG CTTAAAAAGA AACCTTGAAG CTGGCGAAAT TGTTTCACAA	360
40	GTTTTAACAG TTCAAAAAGC CCTTGATGCT ACAGAAGAGC	400
40	(2) INFORMATION FOR SEQ ID NO: 1343:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1343:	
	GAAAATTTCA TCAGGTGTTG GCGTGGAACG TACATTCCCA TTACACACAC CAAAAATTGA	60

	TTTACGTGGT AAAGCTGCTA GAATCCAAGA AATTCGTTAA TCAGCATTTA AACAAAGCTA	180
	TGTATGAGTC AAATTCGACT CAAACAATAA AGCCATCTAG GTCACTTTTA TGGAGTGATA	240
5	TAGATGGCTT TTTTTGCTGT TTAGTTAATG TAAAGTTGAT AATGTAATTG TTTATTCCTT	300
	CTCTATTCAT AACGTGTTTG CTCAAAATGG TTATATAAAC AAAAATCTAC TAAGTGCCAT	360
10	TGAAAAGGAC TTAGTAGATT TATTAAATAT ATGCGTANA	399
	(2) INFORMATION FOR SEQ ID NO: 1344:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1344:	
	AACTTACAAC ACCAGGTAAT AACAGCAATA AAGGCACCAG TTAGTGCGGT AATGCCAnTA	60
	TCTAGGCCTT TAGGTTGCCA TAGTACGAGA TGTAGAGGTA CTAGAGGAAT GAGTGTCGCT	120
25	AAAGTTGTCG TCGT	134
	(2) INFORMATION FOR SEQ ID NO: 1345:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1345:	
	TCATAATAAA CAAGTTCACA TGAATCACAA CATCTGAAGA CAATGTTCAA AATGAGGCTG	60
40	GCACAATAGA TGATCGCAAG TCGnATCATC ACACAGTACT GAAGCAAGA	109
	(2) INFORMATION FOR SEQ ID NO: 1346:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1346:	
	CCATATCTGG nACGACCGAC ACCTTTACCA CCAACGATTG GTGCCATTTG TTTGCATAAG	60

	(2) INFORMATION FOR SEQ ID NO: 1347:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1347:	
	CAATTGAAAG GTGAATTTTA TAGGTCCATG ACAAACTAAG GCTTGTTAAA GCTTATTAAC	60
15	ACAGTTTCAT CAAATAGTTA AATTAGTTTT TGTTTTGCAA TAAATTGGGT ATAGATTACA	120
	Antg	124
	(2) INFORMATION FOR SEQ ID NO: 1348:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1348:	
	CATCAGTGGC CTGATCACCC CAACATTTGA CATCAATGCA TACCAGTTGA TTTGAACAAT	60
3 0	GATTGCATTG AGCTATCATC AAGTTTGTCT TTAAGCTACT AAACCCACGA ACCATGTTAA	120
	CCCCGTGGTC ACCATCACCA ATTGCTCGAT CTAATTCAGT TAATTCAGAT TCATGTTTTT	180
35	TAAACGTTTC TTCTAAATTT AATAAACGTG CTTTCATATC ATCALTTCAT TGTGCaCtaT	240
35	AAATGLATAT TATTCATATT CACTTCTnAT TTAAAGTATG ACTTGTTGTT GGTGCTAAAA	300
	ATGCnTCCAA ATATTCTGGT TTATNAGGCA CGATAGT	337
40	(2) INFORMATION FOR SEQ ID NO: 1349:	
4 <i>5</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1349:	
50	CAGCACGTAA ATACAACAAA GCGATCCCCA GCTTGTGGCA CATCATTAAT ACCTGTAATT	60
	TCAACAGGCG TTGATGGACC AGCCGTTTTG ATTCTTTGAC CTAAGTCATT ACATGCCGAA	120

(2) INFORMATION FOR SEQ ID NO: 1350:

55

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1350:	
	CAATTTTACT TTGAATTTCT TTTTTATCTT TTCTAGTTTT ATCGTCCCAC TCTTCAATCC	60
15	ATTTTTAGC TTTATCTTCA TTATTAGTCA ACTTGCCTAT TTCTTTTAAT ATTCTTTATG	120
	ATTGTATTTA TTGTATGTAT ATGGGATTGT TGGCGCTATT TTTTGGTATT TTTTTATATT	180
	TTTATCCATA GCATCTACAA CAATTAAATC TGGTTTtGCT TTAGCAACTC TTTCAACATC	240
20	ATTTTCTCCA ATATAATCAA CCCCTTTTAA ATAAGGTTTT AAAATTGAAG AATCTTTAGT	300
	TATATCTGAA ACAGCAATTG GTTTGATTCC TAACTTTATA AAATCACCAA CATAAAATCC	360
	AGTTAATACA GCAACTCTTT TAAGGTTCTC nGGGACTTT	399
25	(2) INFORMATION FOR SEQ ID NO: 1351:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1351:	
	TAAAACTTAG GCGGTTTTGC ATGATTATAG CGCTCAACAC GTTTGAAATT ATAGGTCATC	60
	TCTGGTATTC TTGTACGATT CTTTTTCCAA TCTAAATCAA AGTTTTCAAT TTCTTCTTTT	120
40	GAGTTTAGAC TTAATCGATC ACGTTCATGT TCTTTAAAAG ATGGAATAAC TTGTTTAAGT	180
	GACCCTTCCA TTCTTAATTG ACCATGTGAA AACCAAGCTA TGTAGTTACT CACTTGTGAA	240
	ATTITATCAA TATCATCACC AATTGACACA ATCGTTAAAT TATTITCAAT ATAATCATTT	300
45	GTTAATTCAA TCGCACGTTC CATAAATTGT GGTGTTAAAT AGTCAATAAC ATGATTTAAA	360
	ATAATAATAT TTGATTTTGA TGAGCGTGCA ATACTTAATA	400
	(2) INFORMATION FOR SEQ ID NO: 1352:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1352:	
5	AAGGGAACAA AAGCTGGAGC TCCACCGCGG TGcGgCcGCT CTAGAACTAG TGGATCCCCC	60
	GGGCTGCAGG AATTCGGCAC GAGCATATCT AGTATTTTAG GACGGAGGNA GTACATT	117
	(2) INFORMATION FOR SEQ ID NO: 1353:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1353:	
	AGTTCAGGAG AGTTATAAAT ATTAGGGTGG TACATGCCCG AAATCATTGG AATTGTTAAA	60
20	GTAGATTTTA CAGTTTAGAG ATAACAGACA TGTCTATATG AAGGGCTGTC TACCCTCGTA	120
	AGGTTATATC CTACAGNTGA ACGTATCAAG CTT	153
25	(2) INFORMATION FOR SEQ ID NO: 1354:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1354:	
35	TGTTGTAACA GCTCTCTATG TTTACGTTGG AAGTATGGTT TATTTTTCAT CTTCACATTT	60
	AGTTCCTTAT TTAAAAGTGA TAGAGCAATT GCACTCGTAG GTCAAGAAGC GGGATGCCAA	120
	CACAAAGTTC ACAAGAnAAT ACACTTTTGA AAATATTGG	159
40	(2) INFORMATION FOR SEQ ID NO: 1355:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1355:	
	CGNCTTCCTT CAACCATTGT AGAAGTTGTC TCATATACTT ACTACGGCTT GCTAATACTC	60

	(2) INFORMATION FOR SEQ ID NO: 1356:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1356:	
	GGATTCATTG GTGCTTATTT ATTTACATTC AATAATGAGA NCTTTACACA ACCAATTGGT	60
15	CAAATTATAG ATGTCAACAT GTTTCTTCGA CACCTACAAA AGATGCACAA	110
	(2) INFORMATION FOR SEQ ID NO: 1357:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1357:	
	TAATGGTGGG GTATATTTAT ATTAGTACCG AATTTTAGGn GCCTCACTAT CATTTATCAA	60
30	ATTATTTAAA GTGGGATCCT ATCGCAATCA ATTGGCAGGG GCAGAATAAT GGCATTAGTC	120
	GTTGAAGATA TCG	133
	(2) INFORMATION FOR SEQ ID NO: 1358:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1358:	
45	GTGTCGGTAA GTCCACTTC TTAAATCATT ATCGTCCAGA ACTTAATCTT GAGACAAATG	60
70	ATATATCAAA ATCATTAAAT CGAGGAAAGC ATACTACAAG ACATGTCGAA CTATTCGAAC	120
	GTCAAAACGG TTATATTGCA GACACCTG GATTCAGTGC TTTAGATTTT GATCATATAG	180
50	ATAAAGATGA AATAAAAGAT TATTTTCTTG AATTAAATCG ATATGGTGAA CATGTAAGTT	240
	TAGGAATTGT AATCATATCA AAGAACCTAA TTGTAATGTT AAGCATCAAT TAGAGATAGG	300
	GAATATTGCG CAATTTAGAT ACGACCATTA TTTACAACTA TTTAATGAAA TTTCCAAATA	360

	(2) INFORMATION FOR SEQ ID NO: 1359:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1359:	
	CTGTTTTAGT CTTATTGATT GCCTGACCAT TAACTAAGTA ATTTGTGTTT GAAGCGGTTA	60
15	ATTGAGCAAT GATTGGAATG TCGTATTTCT TTCTCGTTCG TGAAATGACA TTTGTTAACT	120
	CTTCTAGGTC GTAATACGTT TCGAAAAGTA GCGCGTCAAC GCCTTCTTCA ATTAAGGTGT	180
	CTATTTGAAT TCAGTATGAT AAAGAATAGT TTGTAAGCTG ATATCCCCCT GTTTGGATAC	240
20	CTCTAAACCC CACCAACTGG GGCCCAATAT ATACGTAAnC TnTAATTGGC nGGCTTTTTT	300
	GCGATGCGAC GGGGGGCTGG AGGATGCTTA ACCTTAACCT CCAGACCGAA CCGTTTAACC	360
	TTTCCAAAAT TGCACCATAG GAATGGGTGG AT	392
25	(2) INFORMATION FOR SEQ ID NO: 1360:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1360:	
	CCATGGTTAT TTTCTTCACA TTTCATGTAT ATATATTTGT TTATTATCTG TCTCTACTAG	60
	ACTGTAACCT CCAACATATC TGTTTTATAA ACCAGAGAGC AGTCATTCAA TAAATAAACA	120
40	GATCTGAGGG CCAACTGGCA TGTTGTCAAC TTATGATATT	160
	(2) INFORMATION FOR SEQ ID NO: 1361:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1361:	
	GTATCCTAAA GATTCAGTTA ATCGGAGCGT TGTATTGCAT GAAGGTACAT TGCGGAATGC	60

	ATATTTATTC ACGATTTAT TTAGCGAC	148
	(2) INFORMATION FOR SEQ ID NO: 1362:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(5) Torollogi. Illiear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1362:	
15	AAAATTACTA TGAAGATTGC ATTAGGATGC GACCATATTG TTACAGATAC AAAAATGCGT	60
	GTATCTGAAT TTTTAAAATC AAAAGGACAT GAAGTCATTG ACTGACACTT CACTCATMAG	120
	TGGCGACAGT GTACGTATCA GACTTAG	147
20	(2) INFORMATION FOR SEQ ID NO: 1363:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 108 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1363:	
	CTGGCAAAGA AGACAACAAC AAGCTGGTAA AGAAGCAACA ACAAGCCTGG TAAAGAGACA	60
	ACAACAAnCT GGCAAAGAAG ACGGCAACAA GCTGGTAAAG AAGCAACA	108
35	(2) INFORMATION FOR SEQ ID NO: 1364:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1364:	
45	GACAATGTTG CTGTAATGGG GAAGGNAATG GGTTGGTACC GCGAATTGAA TAATTTAAAA	60
	CCGTAATATA TAATCGTAAT TGTTAAGCCC TCATTTTTAT AAATTTTGGA CCTCTTGAAA	120
50	AAGTTACGTT TTCAAGAGGT TTTATTTATC CTA	153
50	(2) INFORMATION FOR SEQ ID NO: 1365:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 184 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(wi) SHOUTHAR DESCRIPTION SEC. ID NO. 1265	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1365:	
	TAAGAGAATT ATATGCATTC CAAACGAAAC nAACAGAAAA ACGGACCAAA CTAACTGTCA	60
10	CAAGTACAAT CGCTGTACTA CTGCAAAACA CGCAAAACGA ACACTTACGT ACACACAAAA	120
	AGACCACCAT TCACGTCGGG ATTATTAAAA AGGTAGTCTC GTACATTTAT TAAACTACTT	180
	ACGT	184
15	(2) INFORMATION FOR SEQ ID NO: 1366:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 452 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1366:	
	ACATTAGATG GGTCAATCAT GTTATACACG GTGATTTAGG GGAGTCAATC AAATATAAAA	60
	GGCCGGTAAT TGATGTTATT GAGGAAAGAA TTCCAAATAC AATATTACTC GGTGCTATGT	120
30	CATTAATTAT TACTTATATT ATCTCATTTG CTTTAGGAAT AACGTCAGGT AGATATTCTT	180
	ACAGTTTGAC GGATTATACT GTGCAAATAT TTAATTATTT GATGTTAGCC ATTCCATCTT	240
	TTATTGCGGG AGTATTTGCA ATTINTATIT TTTCTTTTGA ATTACAATGG TTCCCGTTTC	300
35	AAGGTTCTGT TGATATTAAC CTTAAAGAAG GTACTTTTGA ATATLATATG AGTAAAATAT	360
	ATCACACATT TTTACCTGCA TTCACTTTAG GTTTATTATC TACTGCTGGT TATAWTCAAT	420
	ATTTACGTAA TGATATTATT GAAAATTCTA AA	452
40	(2) INFORMATION FOR SEQ ID NO: 1367:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1367:	
	TTGTGAGTAA TTGGACAATA TAAGTGTTGG TCTTGGATGG CATATCCTTG GTACGACCTG	60
	GGCAACTTGC TTCATAGCGC AGTTAGGAAC TGATCAATCA TTGGCGTTTT GATACCTAGC	120
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 1368:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1368:	
	TGGTGCAAAT TAAAACGGTT GCATATGCAC GTACGACGTA TTGCTAAATA CAATCAATTA	60
15	TTACGTATCG AAGATGAATT ATTTGAAACG CTAAATATGA CGGTATCAAA TCATTCTATn	120
	ACTTAG	126
	(2) INFORMATION FOR SEQ ID NO: 1369:	
?0	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
?5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1369:	
	TGRAAAGTTC ATCAGGGAGC CATTTTTACA ACACAGGGCA CATACGGGTT GTGTTTAGGT	60
30	GCAATTGCCC CAAGCGGACA AAGCATTATT TAAAGTTTCA AGTTCTTCAA CGATTTATTA	120
	GTGCACAGGA TCCTGTTAAG AGGTATTTTG AAGACTTCCG	160
35	(2) INFORMATION FOR SEQ ID NO: 1370:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1370:	
15	AGTAATTCTG CAAATGCCGC AGATAGCnGT ACTTTGAATT ATGAGGTTTA CAAATACAAT	60
	ACCAATGACA CGTCAATTGC TAATGACTAT TTTAATAAAC CGGCAAAGTA CATTAAGAAA	120
: 0	AATGGTAAAT TGTATGTTCA AATAACTGTC AACCACAGTC ATTGGATTAC TGGAATGAGT	180
50	ATCGAAGGAC ATAAAGAAAA TATTATTAGT AAAAACACTG CCAAAGATGA ACGCACTTCT	240
	GAATTTGAAG TAAGTAAGTT GAACGGTAAA ATAGATGGAA AAATTGACGT TTATATCGAT	300

400

AATGGACCAn CTGATGTAGC AGGTGCTAAT GCACCAGGTA

	(2) INFORMATION FOR SEQ ID NO: 1371:			
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 			
10				
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1371:			
15	CATCAAGAAC ATGTGAGACC ACAATTTGAA TCACTTGAAA AAATAAAT	TAA AGACATTGTT	60	
	GGATGGATAA AATTATCAGG AACATCATTA AATTATCCAG TACTACAA	AGG TAAGACAAAT	120	
CACGATTATT '	TAAATTTAGA TTTTGAGCGA GAACATCGAC GTAAAGGTAG TATTTTYATG	180		•
GATTTTAGAA	ATGAATTGAA GAATTTMAAT CATAATACTA TTTTATACGG GCACCATGTC	240		20
ggtgataata (CGATGTTTGA TGTGTTAGAA GATTATTTAA AGCAATCGTT TTATGAAAAA	300		
CACAAGATAA '	TTGANTTTGG CAATAAATAT GGTAATCTCC ATTGC	345		
(2) INFORMA	ATION FOR SEQ ID NO: 1372:			25
() ()	EQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		•	30
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO: 1372:			35
TTGAAAAGCA (GTTTGGATTT ATGCTCAAAC CATGGACGAC GGTTAGGTTT ATGAATGTTA	60		
TTCCAAATAG	GTTCATCTAT AAAAACTAGT GGAAAGTGGA AAAAATnAGT GGACCTTCGA	120	·	
TAATACGATG	TATTTATCGT TAGAAGCAGT AATA	154		40
(2) INFORMA	ATION FOR SEQ ID NO: 1373:			
() ()	EQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			45
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO: 1373:			50
	ATTCAAGCCA AATCGCATAT GAAATTGATA AAGAAGTTCA ACGAATCGTT	60		

	CTATACNAGA ACTATC	136
	(2) INFORMATION FOR SEQ ID NO: 1374:	
5	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 358 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1374:	
15	ATCTTTAACA ATTAAAACCA TACTATCTTG AATCATCATC AAATTTAACG CATGTGCGTC	60
	AAGTTGTTTC ACTTTAAAGA CTTCATTATT AAGACCGACC TTAGACTGCT TTTTAAAAAT	120
•	AGGTACATTC GTAATCATAC CTATACTTTG ATTGTCTAAG TGTAATTTGT TTTGGTGATA	180
20	TCGATTATAA TCTTGTGCAG TAAAAGCTGT AATCATTACT GATTGTCTTG AAAATATCGC	240
	GCCTTCATTA CCAATGAAGT CTATTGGAAT ATCATCACTA GCCTGTTTTA ACTTGTAATA	300
	AGCACGATTC THTTCTAAAG AAGCTCTAAA TAATGTCGTT TCATATACTT TGAAGTCT	358
25	(2) INFORMATION FOR SEQ ID NO: 1375:	
	(i) SEQUENCE CHARACTERISTICS:. (A) LENGTH: 122 base pairs	
30	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
00	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1375:	
	ATATTGTGTG CTAAATTTGC TTAAGTATGT TTTTTGTTTG NAAGTAAGCA TATGTTATTG	60
	TCTTTTTAAT TGTTGTAAAA GTGCTGTTTT CATAGAATTA ATATCAGACA TCTTTATTAG	120
40	TA	122
	(2) INFORMATION FOR SEQ ID NO: 1376:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 467 base pairs	
45	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1376:	
	CATTTCTTC GGTTTCTGTC TTTTTATGCG TAGATTTATT TTCTTGTTCT TGGTTATTAC	60
55		

	CGATAATTAC GATGGTAATA AGAAGTTTTT TCAAATATAA CGCCTCCATG TTAATGAAAA	180
	GTAGTTGATA CGTGAAGCTA AATAATTMAT TTCAATATTG CCATAATCAT TTTAAAAAAAT	240
5	AAATATTAGA AAAGTAGGCG ATATTAATAT TITCATTGTE TTTTGTGTAC TTCAATTAGT	300
	ATAACAAAAC TGTTATGTAT TTATAAATAT AATCATTAGT ATTTTTATGG CTGAAAAAGT	360
	TATAATAAAA GTGTAAGGAA TAAAATATTT GTATGGAAAA GAGAGATAAT TATGAATAAA	420
10	ACCAGTAAAG TTTGTGTAGC AGCAACATTA GCATTGGGCA CACTGAT	467
	(2) INFORMATION FOR SEQ ID NO: 1377:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1377:	
	AGGTGTTAGA ATTTATTTTA AGTGTTATAC GTGTCTTCCA GAAATTGTAA TGGCATTATA	60
25	TTTATMAAAG TGTTGGCAGG TTATTTTCAG GTGTATTAGT TTAGGTATCA TTCGTAGTAT	120
	GCTTGGGA	128
20	(2) INFORMATION FOR SEQ ID NO: 1378:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1378:	
40	GGACGCTAGA GGATCCCGGT CTGGAAAATA TCGTCCAGAA CTTAGAAATA TGAAAATATT	60
	CCCAAGACCA ATCGATAATA TATTGCCAAT ATGGCGTGCT GTTGGTGGTC CACCTGCAAG	120
45	TGCTATTAAA GCGGGAAAAC AAGGTGTGCC AATGATGATT ACAACCCTTG GTGGCCCAGC	180
43	AATGAACTTT AAAGGTTCTA TAKATGCTTA TCGTCAAKCG GCAACTGAAG CAGGTTTCGA	240
	TGCTTCGCCT AAGTCTTTAC CAGTAAGTAC AGCGAGTCTG TTTTATACAG CTGAAACAAC	300
50	TCAGGATGCT ATGAGAGAAT TTTATCCACA TTTGAATACA GGGATGTCAT TTATTCGTGG	360
	TRIGTTGGTTA TCCGAAACAG CAATRGCTAA TTCGTCAGTT	400
	721 INDUMPRATION FOR SECULO NO. 1579!	

(A) LENGTH: 108 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1379:	-
10	AACTACAACA ATTTAACGAC CAACCTTAAA AMAATACGCT CTTATGCATT GGATTAGTCC	. 60
	TGATTATACA ATTTAACTGA ACAAATACCC ATCATTTAAA AGACTTAG	108
	(2) INFORMATION FOR SEQ ID NO: 1380:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1380:	• •
25	AAGTGGGGGG AATCAGTATG TTACATTTAC ATATATTAAG TATTAGCGAT TATTTTATTT	60
	ATCGCTACAT ACTTAACCAT TTCAAAAATT CAAGGCGGnT CACCATTTTC CAACCCGT	118
	(2) INFORMATION FOR SEQ ID NO: 1381:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1381:	
	TCATGAAAAC ATTTATTTTA AAATTTGATA TTTGTTCAAT AATATTCGAA ATTAACT $ au_{n}$ T	60
40	GTGTATAGAT TTTCTTTATA TCCTGAGAGA CATGTACTAT AATGTTTGTG AATA	114
	(2) INFORMATION FOR SEQ ID NO: 1382:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1382:	
	CGGTATTGAT CATATAAATA GTGTTTAGAT GCTATAGTCG GNTGACTTAA GTAATTTAAA	60
55		

	GTTTTCTTCT GCCTTGCTTA AAGATATATG ACAGGGTGCT GGCAT	165
	(2) INFORMATION FOR SEQ ID NO: 1383:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1383:	
15	TTTGGTGTGA TGGAGTATAT TTAGGTGTGG AAATCAAGAG GGAATTCCAT TTTCAAACAT	60
	CCAATTAGAG TCGnAATAAG AACTCGCTAT CGGTCCAATT AACTGATTCA G	111
	(2) INFORMATION FOR SEQ ID NO: 1384:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1384:	
	CATTTAAATA ACGTTGTGAC CATGTGCTTT ATGCTATGTG CTAGAAAATC CATGTTTTTA	60
30	TCTAATTTCT TAATAAATTG ACATTAAGTT GGATTCTTGT CCnCTTCACG TTTCGACATT	120
	GGATGACTGA ACGCATGAAA TCAG	144
35	(2) INFORMATION FOR SEQ ID NO: 1385:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(with appropriate programment and the No. 1205	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1385:	
45	TCGTTGTGCA GCAACTGCAT TACGCTGTCT CATTAATGTA AGCGCAATGG CCATTTGGTT	60
	TTTCnATAGT GGAATACTTG TCAAAATTGA ACATTGTATC TTC	103
50	(2) INFORMATION FOR SEQ ID NO: 1386:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 533 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1386:	٠
5	CCAGnACAAA TACAACGTTA TATTCAACAA TTAGAAGACT TAGAATAGAT ATAAATTGAG	60
	GGAGGACATC GATATGGCAT TTGAAGGGTT ATCAGAAACC TTGCAAGCGA CGATGCAAAA	120
	AATGCGTGGT AAGGGTAAAC TTACTGAAGC TGATATAAAG ATAATGATGC GTGAAGTAAG	180
10	ATTAGCGTTA CTTGAGGCTG NACGTAAACT TTAAAGTGGT AAAAGAATTT ATTAAAACAG	240
	TATCAGAACG CGCATTAGGT TCCGATGTAA TGCAATCATT AACACCAGGG CAACAAGTTA	300
	TTAAAATAGT TCAAGATGAA TTAACGCAGT TGATGGGTGG AGAAAATACG TCGATTAARA	360
15	TGTCAAATAA ACCACCTACT GTTGTTATGA TGGTTGGTTT ACAAGGTGCT GGTAAAACAA	420
	CAACTGCAGG TAAATTAGCA TTATTGATGC GTAAAAAATA CAACAAnAAA CCTATGTnAG	480
	TTGCAGCAGA TATTTATCGT CCAGCAGCGA TAAATCAATT ACAAACAGTA GGG	533
20	(2) INFORMATION FOR SEQ ID NO: 1387:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 112 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1387:	
	TTATTTACAA GCCATTAATA TATTTTAGGT TTGTTCTGCA TCGATTCATT GGTGCTATTT	60
	TATTTACATT CAATAATGAG ACTTTTACAR CAAACCAATT GGTCAAATAT AG	112
35	(2) INFORMATION FOR SEQ ID NO: 1388:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 118 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 1388:	
70	ACACCTACAG TTAATAGTAT CAGTGCACAC TAAAGTCCTA ATACTTTCAA CCATGACTAA	60
	TGATGTATCN TCTTGCCCAA CGAACGCGTT GTGCCAAATT GAATTAGACT GGACGGAC	
50	(2) INFORMATION FOR SEQ ID NO: 1389:	118
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 147 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5 '	(with appropriately and the value	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1389:	
	CGACGACACA ACTITATAAT AAAATCTTAG ACAATAACGA AGGGTATTAA CAGAACTTGG	60
10	TGCTGTTAAT GCAAGTACTG GAAAATATAC TGGTCGTCGC TAAAGCAAAT TTTTGCTCTG	120
	ACCTHCAATG GTACTTGTTG GGGAATA	147
	(2) INFORMATION FOR SEQ ID NO: 1390:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 161 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1390:	٠
25	TTTTTGATCA TGATTTTTGG GCATGGATCA ATCACTTGCT TGGCCAATGG TCTTTCAACA	60
	ATTTGGATAT CTGACCTTAT TCGCTTTATC TAGCACTTTT GnCAATTTGT TGGCATTGGA	120
	AAACATGTGT TTAGATTTTT GTATGCCTCT CGCAGGCTTT T	161
30	(2) INFORMATION FOR SEQ ID NO: 1391:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1391:	
	GCCGCACGCG CGCGATTCTC GGCCTAATAA GAAAACAAAT AATTCCAATT CATATATGnA	60
	CATTTTTGCC TCCTTATTTC TTGAAAATGT GGAATTGGAA TT	102
45	(2) INFORMATION FOR SEQ ID NO: 1392:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 412 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1392:	

	AAAATGCTAT TAACAACGTA TTAAATAATC AAGATTACCA TGGTATTAAA GATAAACCAT	120
	TCGCATTATT CGTAACTGGA TTTTTCGACA ATGTAACAGA TAATACTGTT GGTATTAACT	180
5	TTAAGACAAA AGACGGTTCA ATAGCAGTAT TTATGCGTCC AGATATTGGA GAAACATTTA	240
	GCGAGTTTAG AACATTCTTA GCCGTCTTGT TAATGTTGTT ATTATTTATC TCGATTTCAT	300
10	TAGTTATCGC ATCAnCCTAT TCAATCATTC GTCCAGTAAA AAAGTTAAAG CTAGCGACCG	360
10	AACGCTTAAT TGATGGTGAT TTTGAAACAC CTATCAAACA AACmCGCAAA GA	412
	(2) INFORMATION FOR SEQ ID NO: 1393:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 186 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1393:	
	AGCAANTGGA TTGCAATGAG TTTCTTATAT TTACAAGGTG GTAGATTGAT TGATGTTTTA	60
25	ACTGCGATAT TAGCAGTAGT CTAGATACCT AGTCACTGAG ATTTTAGATC GAGTTACACG	120
	CACATTATCC GATCTGTCTA TATGGATATC CGTATGACTA CCTATCCCAC GGACTGCACA	180
30	TACTGG	186
	(2) INFORMATION FOR SEQ ID NO: 1394:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1394:	
	TCTTTAAAAG AATCAGGAGC TTGGAAGAAG TATATCAGGA TCATTAAGTC AACAAATTAC	60
	GCGATATGAA AATTTGAATA ACAATTTGNA AAAGCATGCT TCCGATAATC AGCAAGCC	118
45	(2) INFORMATION FOR SEQ ID NO: 1395:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 175 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GGTTACCTCG GATGGATGAT TACTATTTTG GGCTGGGCGC CGGCTTTnGT TATTAGTGGT	60
	GGCAATAGTG GCAAAGTGTC ACAAAAAAAT CCAATAGCTG GAAACCCGGG TATATTTGGG	120
5	TATTAACGCC GGTGGCCGGG ATTTGGCCAA TCGCATTAAT TTAATGGCCA TTGGG	175
	(2) INFORMATION FOR SEQ ID NO: 1396:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1396:	
	AGAAACTTAG ACGATTAGTA TCATATATTA GAACACNGCA CCGAACTTGA AATCATGGCT	60
20	GATATCGCAC CTTGAAGAAG CAAAAATGCC GCACGACTTG GCTTTGATAT ATTGGCACGA	120
	CTTACATGGC AT	132
	(2) INFORMATION FOR SEQ ID NO: 1397:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1397:	
35	AGAGGTCCGG CTATCTATCA AATAAAGTGG TCATTTAAAG CGTACACTTC GGGTGCGTTG	60
•	ATTTCTTACT TTAGGTGTAG GACAATTGTA TCGCATCTAT CTTTACnCTA CCTGCATTGT	120
	T .	121
40	(2) INFORMATION FOR SEQ ID NO: 1398:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1398:	
	CGTTCGTATA ATCTCACTTG CATCnTGAAT TGAACAACAT CCTGTCATTT TAAGACTGCT	60
	AAAnGTACAG CTGAAAACCA AGTAAGTCCG TTTCGTCTGG CTGTGAAATG GATCAAGGAG	120

	AAACACCTCA TCCAAAGTTC AG	202
	(2) INFORMATION FOR SEQ ID NO: 1399:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1399:	
15	CGTTGGATCA CTGATGCATT CATAAATGGG TGAACnTAAT GTAATGTTAA ATCTATCACA	60
15	GCGCGATAAC AGCAAGAATA TAGTGAACAC CATAAATTGA GCATATCAAT GCCATATTCA	120
	TGGATACACA TAGTTCACCT GGTGGTCGGT GAAAGCCTGT AGATG	165
20	(2) INFORMATION FOR SEQ ID NO: 1400:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1400:	
30	ACACCTTTGT TTTTGCAAAG CTGTACCACA AAGTACTGGG TAGAATTCTA CGTTATATGA	60
	GnCTTGGCGT ATAGCTTCTT TTAATTCATA AACTGTAAAT TTCTTCG	107
35	(2) INFORMATION FOR SEQ ID NO: 1401:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1401:	
45	TTTTGTCTAG nAACATCTGC TTCTAATAAT GATCGATCAG CAGCCATTGT GCTTAATCTT	60
	TCATCCCACA TCACAATCTC AATAGAAGGA TAAGCTTCTA ATAATT	106
	(2) INFORMATION FOR SEQ ID NO: 1402:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1402:	
	CAATGTTAAA CCTACACCGT TAACAGCACA CATGATACTA AATTGTTGGG GTGTCATATT	60
5	ATACAATGTT GAGTAnTAAA TGGCGATGCA GATGAATAAC TA	102
	(2) INFORMATION FOR SEQ ID NO: 1403:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1403:	
	TTTATTATTT GTGCTACAAC TACTTAAAAA AATCAGTAGA TATAGCATTA AACATATTTT	60
20	CATCCCCYTG AATTTTAAAA ACTTTTTCAA AAGCAACACC TCTAAAAATA AATaCAATAT	120
	ATTATAGCAA ATAGAAATTA TTATTTTGTT AAATTATGTT GTmCATGTT	169
	(2) INFORMATION FOR SEQ ID NO: 1404:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1404:	
35	TTAGTTGATA AGTAAATCCG AGTGACATTG GGATTCACCC CAACCGACTC TATTCCAGTC	60
00	TGAAATACGT GAACCCATAA nATCCTATGT CCAGATTTAT ATTTCT	106
	(2) INFORMATION FOR SEQ ID NO: 1405:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1405:	
	TATTTTGCA GCAGAGATGT TCGCGACAAG GTTTACGCCA AATTGTCACT GCTACTGCGA	60
50	TGTGTATTGC ATGCAAGTGC AGGNAATATA TTGAACATTT AAACGATCAG TTTAATTCGA	120

	CTTTAATAAG CAATTTGTAC TGACTGTCGA CATTGCGTCA TGGTCTGTTT TTGTTTAACT	240
	ATACTATngg Tgcgaagtag gcctatgttt agaggtctaa catgccgtag gtctaatgga	300
5	TCAGGAACC	309
	(2) INFORMATION FOR SEQ ID NO: 1406:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1406:	
	GTGGACCTGC AGTTAATTCA ACGATTTCAA GATGGGCGCC AAGAACGAAA CGTGGCCGAT	60
20	ACTTAGGATT CTGGAATCAT CACATAATCG TGTGCATGAG GTGTTTCACT TTGGGGTCTA	120
	ATGATTCTTC ATGGAAnGTA TAGG	144
	(2) INFORMATION FOR SEQ ID NO: 1407:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1407:	
	ACCTTTGCGT CCAGAATTAG CTACATGGTA AAGCTTCGTG TTACTATTTT AGGGATATCT	60
35	TCAACnCGTT TCACTTGTAT AATTTGTTTT TGTAATTGGT GAAGTCATAG TATAG	115
	(2) INFORMATION FOR SEQ ID NO: 1408:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1408:	
	ATTGGTATTG GCGCTGTAGT ATAGCTTCAT TATCTGATGC CATTAGTATA CGCACACTnT	60
50	TTATTTATGG GCGTGGTATT CATCCTTATC GGGATCAATT ATTGGGTTAC ATTTT	115
	(2) INFORMATION FOR SEQ ID NO: 1409:	

5	(A) LENGTH: 123 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1409:	
10	AACCAGATGA AAAGCAAATA TACATATATA ACTCTACATG GGGTCGTGGT TTGGATATTG	60
	TTCATGATGC ATTCGGTATG CCAATGACAA AGCAATATAA AGATAAATTn CAAGAAGATA	120
	AAA	123
15	(2) INFORMATION FOR SEQ ID NO: 1410:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1410: CTnTTTATAT TGAGGATTTT GTATCATATA TGGATAATCA TTAAAGGTGT ATGCTCTTGT	60
	TATCAGATCG CTACGGGTAA AATCGCTTCT ATAGGGCATT TACATGCGGG CTTCTGCCGG	120
30	(2) INFORMATION FOR SEQ ID NO: 1411:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 455 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1411:	
40	TCTCGTATTG CGTTTAGAGA ACATGCGCAC AAAGGACAAA TTCCAGGTGT TAAAAAATCA	60
	AGTTGGTAAA ATCAAATTTC GTACTTTAGC CCATTTACAA TATCAATAAA ACAATGTACA	120
45	GTATATACGA ATGCTATAAA CTGAATGTTT TCTCATATTA ATAAGGAAAC ATTCGGTTTT	180
,•	TAATTTGCAT TTAAAAATAA TTAGTTTTTA AAGGGGCTAT TTAAAGTGAA AATATTTGAT	240
	TACGAAGATA TTCAATTAAT ACCTAATAAA TGCATAGTTG AAAGTAGGTC TGAATGTGAT	300
50	ACAACTATCC AATTTGGTCC GAAAAAATTC AAGCTACCTG TAGTTCCTGC GNATATGCAA	360
	ACAGTTATGA ATGAGAAATT AGCGAAATGG TTTGCTGAAA ATGATTACTT TTATAATCAT	420
	GCATCGTTTT GATGAAGAAG CAAGAATACC TnTTA	455

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1412:	
	ACAATGTCAA ATCACAATAG CTGTTGTAGG CATTTGATTA CAATGAACTA AAGGCAAAAT	60
**	TGGAGCAGTT ATCCATGAAT GATTAATAAC AACAAAAGT ATGGGGTCAA GTTTAGGG	118
15	(2) INFORMATION FOR SEQ ID NO: 1413:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1413:	
25	TGTTGACGAT ATAGGAATTA GCAAGAAATA GGCTAAGATA GTTTCGCACA ACTTGGGGCC	60
	CANCCACTTG CTTGTTTGTA GAATTAGGGG TCCATTTCTC GTGTTGGGGC CCGAACTAAT	120
	AGTATGAATA TATATATCTA ATATTAAAAC GGCAATATTT ATATGGTATA CATTTTTATA	180
30	TTTAGTnTTT GTATAGACAT GCTAATTAGC ACTTTCTAAA AAGGGTTGAA ATGATATACT	240
	GATGA	245
35	(2) INFORMATION FOR SEQ ID NO: 1414:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 252 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1414:	
45	TTTTTGTTAT TCAAAATTTA GAGTGTGTTA TATGATAACG GTTTTTTCAT AGCGACTTGA	60
	TCATTTTTCG AAATGATGAA AGATATGCAA GTTCAATCAA TCGGAACAAA AATACTATAT	120
	TATGGTAAGA ANTTCCUGAA UACTAGCGCA CTCACACACA AGTGCATCCT CGCGAACAAT	180
50	GCGCACTTTT CACAAGCACA CAAACACAAG GCACAAGTGC ACGCAnTATT AGACAATGGT	240
	CTACCTACCA GA	252

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1415:	
	ATCTGCTGGA AGAGAAAAAA GACGCTCTTA AAACTGGCTT TAGAAGGTCA AGATATAGAA	60
	GNTATTAAAT CTAAAAAAGA AGGAACTTGA AAAAGTGATT CCAGGAATTT TC	112
15	(2) INFORMATION FOR SEQ ID NO: 1416:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	•	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1416:	
23	CTCAATTACA TTCAAGAAAA TGGGTGGAAT TACACAACGT TGGACTGAGA AGTATAGTTA	60
	ATAGCGCAAA TGCnATAAGC CTTATATAAA AATGGGCACA ATTATTTCAT GTACCAACAA	120
30	GAAC	124
	(2) INFORMATION FOR SEQ ID NO: 1417:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1417:	
	TTCAAGAGCA CATACTGTAA CTCGTACGAG AATTTTTTCA AAATGACGCG TCAATCTCAA	60
45	TATCATCATA TGGTATTCCG AGTAATACCC CTCGnCACCT TTTTTAGGTA GCGTCAATAT	120
45	Т	121
	(2) INFORMATION FOR SEQ ID NO: 1418:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1418:	
	CTACGCCATC AAGAGGGTGT TAGTGCTATT AACTATTGCG GCGAGAGCAA TTAGTCGAAT	60
5	GCAAATTAGG ACAAGTTGAT GAGTAACTAC NGCCAATATC GGTAAGTTTC ATGGCGGTTC	120
	AGC	123
10	(2) INFORMATION FOR SEQ ID NO: 1419: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1419:	
20	CTTATAATCC TTACnGCAAT TTCACCTTGT ACGGAATTAA ACAACGGAGG CATTTACTTA	60
	CCCCCTTTAC TTAATACGTA CCAAAACTTG GTCGTATTCA ACCATTGGG	109
<i>25</i>	(2) INFORMATION FOR SEQ ID NO: 1420: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1420:	
35	GCTGTnGTGC TGCCAAGATG CTGATTGAAA AGTATATATG ATTGCATCAG TAGAAGAGCG	60
	AGCAGAAAGA AGATATAAAG ATAATCAGTT AAGAGGTGTC GAATCAAATT TTGAAGATTT	120
	A	121
40	(2) INFORMATION FOR SEQ ID NO: 1421:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1421:	
	TGTTTTTACA GTCACATACA CTAGGCATCC TAGCATTATC TAAATTTAAT ACCATCGCAA	60
	CTTGCGCTTT AATCTTCAAG GCCAATTAAA CCTCCTTCAT CTTTCTAACT GCTTANATAT	120

	(2) INFORMATION FOR SEQ ID NO: 1422:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1422:	
	GCCAATCATT GTCAATGTTC AGGCATCANA TTTATCGAAT GATTTTCATT TGCCATGATC	60
15	AGTCAAGGCG GGGATTTATT CAAAAATTAT GACGCCTAGT AAAAAATTTT	110
	(2) INFORMATION FOR SEQ ID NO: 1423:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1423:	
	ATTACCTTGC ATGAATTTCC ATCTGTCAAA TGTGCGCCTT CACGAATTTG TTCGATAAAG	60
30	ATACGTTGGT CACCGTGAAT AATTTCACCA GCTGCATTTm TCCATGGACC A	111
	(2) INFORMATION FOR SEQ ID NO: 1424:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1424:	
	TGTTGTGTGA TTGCGTATTC TCAGGTGAAT TCTTACATAT ATAGTACTTT TTGTTTCCGC	60
45	TTGATTTGAC CTTGCATATC TTTCACATTC TTCGAAAATT GATCAAAGCn CTATTGAAAA	120
	ACCGTATCAT ATACAMACCT CTAATTTTT TGACTAACAA AAAGAATTCT TTGACGTATC	180
	AACTATATCA TCATGACTTC	200
50	(2) INFORMATION FOR SEQ ID NO: 1425:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>55</i>	, , , , , , , , , , , , , , , , , , , ,	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 1425:		
5	TITCTATAAT TTTAGACTAT TTCTACCATG TTGCTGAACA ATTTACTTAG ATAAAAATTA	6 0	
	THAAATTTTG GTCAATTAAC AAAGTTAGTT TGTTAAAACG TATACTTTAA TTATTCCGG	119	
	(2) INFORMATION FOR SEQ ID NO: 1426:		
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
15			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1426:		
	AAAATGGCGT TGCATTTTAC TCTAATAACG CTCAAGGCGA CGGCAAAGAT AAACTAAAGG	60	•
20	CACCTATTAT CGAACATAGT ACTCCTANCG GACCTGGAAT TTAAATCAGA GCGGCC	116	
	(2) INFORMATION FOR SEQ ID NO: 1427:		
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 212 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear		
30			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1427:		
	TTTTATTTAC GTATAAGTGG GCGTTAGGTG TCACAGCGGT TGTCGATCAA AATATCATCA	60	
35	TCAATCTTGT ATATGGGTTT GCGGATTCTT ATTTTATGAT TTTACAGAAC TATCCTAGGC	120	
	TTATTCTTTA TTAAAAGATG CAACHAGTTA TATAAAAAGA CGAATCTATC AACGCGAGCT	180	
40	GCTCACAAGG CATCTCnTAT AGCGTCCACA TC	212	
,	(2)_INEQEMATION, FOR SEC ID NO. 1428.		
(A) (B) (C)	JENCE CHARACTERISTICS: LENGTH: 265 base pairs TYPE: nucleic acid STRANDEDNESS: double TOPOLOGY: linear		45
(xi) SE(QUENCE DESCRIPTION: SEQ ID NO: 1428:		50
GAAAAATTGG TT	CTGAATAT AATGGTGCCG TATACTTTAC GCCTCAAATC AAAGATTTTA 60		

	ATTTTAATGA AAAACATCGG TCGAATATAA CATAAAAAAA CGTCTATATC AAAAGCATCA	180
	TGAATAAACA GAGGAGCACA AAAATGAnTA AAAATATAAT CATCAAAAGT ATTGCGGCAT	240
5	TGACGnTTTT AACATCAATA ACTGG	265
	(2) INFORMATION FOR SEQ ID NO: 1429:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1429:	
	CGTACGAAGG ATTTGCAAAC TTCTTCATTC AACAAGCTAA AGAAGAACGT TTCCATGGAC	60
20	AAAAGATTTA TAACTATATT AACGACAGAG GTGCACATGC AGAATTCAGA GCAGTTTCAG	120
	CACCAAAAAT TGACTTTTCA AGCAT	145
	(2) INFORMATION FOR SEQ ID NO: 1430:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1430:	
35	ACACCGCTAA GCGTATTAAG ACAGGATCTG AAAATGGACA CATCGCAATC GAATTATTGC	60
	AATGCCAAGT CATATCGGGG GTGAACCGCA ATTTCAGGNA TTAAGTGGAT AGGTA.	115
	(2) INFORMATION FOR SEQ ID NO: 1431:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 211 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(b) Topologi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1431:	
50	natgtattng tgaaaaggtc ctgagtggac aaaagaccta aatatttaat ggtcgattat	60
	CGCACGTCCA TAGTTGGTGA ACAGGAACTT ACACGTACAT CTAATCGCAG ACTATGCGTA	120
	AACTTTGGAA ACTGCTAGTC ATTGAAGCGT GGTATGTGTA TGCACGTAAA TATGCATTAG	180

	(2) INFORMATION FOR SEQ ID NO: 1432:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1432:	
	GGAATGATTG ATAAATTGGA CTACTTAAAG ATTTCGGTAT CGTGTCATTT GGCTCAGTCC	60
15	ATGTTTAATC ACCTATGNTG ACATGGTATG ATATTAGTGA CTACCAGAGA TATGGATGAT	120
	TTGGAACGTG GAGGACTTGA TCGTT	145
	(2) INFORMATION FOR SEQ ID NO: 1433:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1433:	
30	TTTATTGCAT TTACATAATA ATATCCTTTT GTTGTTTTGG TATTTCTATT CATATACAAG	60
	ACCATACCTT TAACTTTCAG AGCTTCCCCC TTATTTTGAG TTGCCATTTC AGAACCAATA	. 120
	ATCCATGTAC CTTTATCATT TTTATCAAAT TCGTCATCAC GATAACCTn	169
35	(2) INFORMATION FOR SEQ ID NO: 1434:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1434:	
	GATCTATAGT TCTGTAATCT GACGTGCTTT GCCATGTGCA CCACTCGTCn TAAAAATCAC	60
	TTACACTTAA CCCTTTTCCA CCTTTATCGT ATCCACCTTC AA	102
50	(2) INFORMATION FOR SEQ ID NO: 1435:	
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 116 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1435:	
	TTCTTATTAT ACAAATAGAA GCCATGTGTG CTTATATCGC AGCATCATGA CTCCTTTTTC	60
5	ATTTGAATAT ATAAATAATA CAGnCGCTTT CGAATAAATT TAGGCTAATT CTACCA	116
	(2) INFORMATION FOR SEQ ID NO: 1436:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1436:	
	GGGGGTTTAT GTACTGGTGG ATCTGCAAAC TACTTGGCGT AAAGAATATA CAGATATGGT	60
20	AANGAAAAGT TTAGATTCAC ACGCCATCAC AATGGATTAG AAAAACCGAA TTTCTTCAGC	120
	AATTCTACAA TTTCTAGTAT ACGC	144
25	(2) INFORMATION FOR SEQ ID NO: 1437:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 101 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
•••		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1437:	
35	GTTGCTGGGn AACCTATGGT CGAACATGTA TTGGTAAAGT GTGAAAGGCT CTGGTGGCGA	60
	TCAAGTTGGT AACCATCGTA GTACATGGTG CTGTAAATGT A	101
	(2) INFORMATION FOR SEQ ID NO: 1438:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 321 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1438:	
50	AAAGATGGTG ACATTTCATA TAATCCGAAT GTGCCAAGTT ATTCAGCAAA GTATCAATTA	60
	AGTAATGATG ACTACAATGT GAAGCAACTT AGAAAGAGGT ATGATATACC AACTAnGAAA	120

	AATTTAGAGT TTACATTTAT AGAAAATAAA GAAGAAAACA TCTATTTTAC GGATAGTATT	240
	AATTTCAAAC CTACTGAATA GGGTTAATAG AAGTTTGAAA TGAAAATTTC nTAAAGTGTG	300
5	CAAAATAATT TGTCGCTTTA G	321
	(2) INFORMATION FOR SEQ ID NO: 1439:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1439:	
	CAGTTGTAAT GGGACCTGGG CCAATCGGAT TACTTGTAGC ACAAGTGTTA AAAAGTAAAG	60
20	GCGCAACTGT TGTGGGTACT GGGTTGGGAC AATTGACCAA GTCAGATTAG ATTAAAGCCA	120
	GAAnGCCATT GCCAC	135
25	(2) INFORMATION FOR SEQ ID NO: 1440:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1440:	
35	AAATTATTIT GAACACTITA TGAAATTTTT ATTTCAAACT TCTATTAACC CTATTCAGTA	60
	GGTTTGAAAT TAATACTATC AGAAAAATAC ACATTTnCTT CTTTATTTCT	110
	(2) INFORMATION FOR SEQ ID NO: 1441:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 436 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(b) Torollog1: Tilleal	
	(wi) CROHENCE DECERIPETON, CHO TO NO. 1444	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1441:	
50	TCTCTTTTGG ATTCATTAAG ATTGCnGCAT CGATACCAAC GTTmAACGGT GATTGTGTAA	60
	TGAATTTTTG CCACCAAGCT TTTTTAACAT TATTCTTTAA TTCAACACCT AAAGGACCAT	120
	AATCCCATGT GTTTGATAAA CCACCGTAAA TATCACTACC AGGGAACACA AAACCTCTGT	180
55		

	GAAAACGCCC CATGGAAAAT AACAGCATAG TAAATATGCT TTACTTCCAT GGGACGAGTT	300
	AATATTTTAA ATTGTATATA ATACAAAANA AGTNACGTAT TTAACCCGCG GTTCCACCCA	360
<i>5</i>	AATTAGTGTA GTCACTCGCT TTTATTTTAA AATGATTCGT TGCGCCAATC TTATTGTTAA	420
	GCTTACACTA TCCTTA	436
10	(2) INFORMATION FOR SEQ ID NO: 1442:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1442:	
20	ATTTTTAGAA GCATACTGCG AACGTCATCA CATCGATTTA CATATCAAAA AGTTAGATTT	60
	GTCGCATAGT CTCGACCGAA ATAACAGCAT TCAGAATGAA GCTCGAATTA AACGTTACGA	120
25	ATGGTTTGAT GAAATGATGA ATGTATTAGA AGCGGATGTA TTGCTAACGG CGCATCATTT	180
23	GGACGATCAA TTAGAAACTA TTATGTATCG TATTTTTANT GGGAAATCAA CACGTAATAA	240
	ACTAGGATTT GATGAGTTAT CGAAGCGAAA AGGTTATCAG ATTTATCGAC CACTTTTAGC	300
30	TGTCTCTAAA AAAGAAATAY AACAATTCCA AGAGAGATAT CATATTCCAT ATTTTGAAGA	360
	TGAATCHAAT AAAGATAACA AATATGTTAG AAATGATATT CGTAANAGAA TTATTCCAGC	420
	TATTGATGAA AATAATCAAC TTAAAGTATC GCATTTATTA A	461
35	(2) INFORMATION FOR SEQ ID NO: 1443:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 143 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1443:	
	AAAGGTGATA AAAAACAAAG GCATTGTAAA TTACTTGAAA ACCAAGTGAG TTATTACACG	60
	ATTCTAATTG GGATAATGCG CGATATTTTA TTCCACACTT GTTACATTAT TGCTTTACGT	120
50	GGGGGTTAGC GTGGAnTCAT CAC	143
	(2) INFORMATION FOR SEQ ID NO: 1444:	
	(i) SEQUENCE CHARACTERISTICS:	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	174
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1444:	
	TGGTGTTGGT TCATCAGTTG TAAACGCGAT TGTCACAAGA CTTAGAAGTA TATGTACACA	60
10	GAAATGAGAC TATATATCAT CAAGCATATA	90
•	(2) INFORMATION FOR SEQ ID NO: 1445:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1445:	
	ATTGAACAGT GACAACAAAT GACAACAATG AATGACCAAC TGAGTTGCAG AATTGACCGA	60
25	CCTGACTTGC TGTDAGATGT GCATTGCCTG TGACCAGTTA ACTGCTGTTT GTACATTATG	120
	ATTGTGCACG TGAAGTCTTT GCAAATGACT TTTAACATTA TGCTGCTAGA GCCATCTTTT	180
	AAAGATGTTT GGACTAACGT nCATGATGTG AATATCTG	218
30	(2) INFORMATION FOR SEQ ID NO: 1446:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1446:	
	TTTGACTTGA CATTATAGAA CACAAATTCA TTTGAAACTA TGTTTTCAAA TTTATTTATT	60
	GTTACTGGGA ATTTCACATT ATTAGATTTA TTTATTTTCT TTTGA	105
45	(2) INFORMATION FOR SEQ ID NO: 1447:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1447:	

	AGACTGAAAA CTGCATATGC AGAGGCGATG AAACAAAATG CCAT	104
	(2) INFORMATION FOR SEQ ID NO: 1448:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	•
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1448:	
15	TTGAATTAAC TGAAGAAnTA GCAGTGCAAG CAGGATTGTT GATATGACAA CATTCGAGTC	60
	AGAATGGCAA CAACAACGTG ATTCGTGCAC TCCAAGCACG TGCA	104
	(2) INFORMATION FOR SEQ ID NO: 1449:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(5) 10102001: 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1449:	
	TATTAATTTT TTTTAATATG GAATATTCAT TGCATCGCTT TCCTATTCTT CAAGCCCACT	60
30	TTTTATCTTC ATATACATTA ATTAACCACC KTCAAACATT GTCGTTAGAT TCGCCAAATT	120
	GAATCTATTT TTAGCACAGC AAAAAACCGA ACTGCTGAAA TAATGCATCT CCAACAGTCC	180
35	GGTCTATTAA ACTATTTACT TATCTTTATT AAACAATTGA CATGATTTAT TAGAATAACC	240
55	CAATTGGCAT GACCATGCAT CAGTAACATC CATGTTTAAT GGCTGCTGGT TTTTTAGGTA	300
	AACCAGGCCA GAGTCATGGN TGGCACCTGN GCAACGCNAC GATAAAGCC	349
40	(2) INFORMATION FOR SEQ ID NO: 1450:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1450:	
30	GATTTTATAT AAATATAGCT TTTCAACAAA ACAAATGATT GAATTTCTAG GAATTGAGTC	60
	ATTAAAAAA CACTTGAAAA ATTCAGGTGG GATTGCGCTA TTGCCGGAAT TTATTGTTGC	120

	AGAAACAACA TTGATAATTA ATCCTGAATC GAATAAGCAM GTACTTGAAT CTTTTGTAAA	240
	AGATGTTTTT TTATAATTAT TGGTGAAAAC GTGTAGTTAT GGTGAAACTC AAAGATAATA	300
5	ATTTAAATGA GATGTTAATG AAAAAGTAAT TCAATATANA ACAGGTGATT TANATCTTAA	360
	TAAGGATAAT TCCAGGTTGA ATTCCAATTG CGGGCATCAT	400
10	(2) INFORMATION FOR SEQ ID NO: 1451:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1451:	
20	TGCGTTATAG TTGCTATTCT CAATTATGTT CGCGATAATT TTAAGTAAAA GTAAGCACAG	60
	ATATTGAATT TGATAGGAGT TAATTGATAT ATACATACGA ACTTTCATGG ATCACTTAAA	. 120
	TTnG	124
25	(2) INFORMATION FOR SEQ ID NO: 1452:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i> ·	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1452:	
	TGTATTAAAA ACCTTCCACC TTTAAAAGCA ACAATGCGGT GTCCTTTAAA TTCAAACATA	60
	ACCATATACG AATTACTCGA TAATTCTGTG TGTTTAATTG ACAGATGTCG TGTGAATTGA	120
40	TnATTT	126
	(2) INFORMATION FOR SEQ ID NO: 1453:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 280 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1453:	
	ACTITGGCAA CATCTGGAAT ATCATATAAA TCAAGTAACT TACCTAACCG ATGATTAATA	60
55		

	CTAACAGTTG TTTCCATGCC TACACCTCAC GATATTATCA CTATTCATAT TAACATTATA	180
	TGTAAGAAAT TAAAATCTTT TGAAGCATTA AGATTACTTA TCATTTnTAA ATTTCAATTT	240
5	AAACTAACAG TAATTTATGT AGCTTTTGnA ATTCTCATAA	280
	(2) INFORMATION FOR SEQ ID NO: 1454:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1454:	
	ATATTCTTTA AATTAAACTG ATCACTTGAA TAATTAACAT TACTTAATTC TATGGCATTC	60
20	ATGATGATTC CTCCTCATAA ATGAACGTTA AAATATCCTG CAGTTCCTCA AGTGACATTT	120
	CGATGGCTTG CGCTTCATTA ACCAATTCTT TAACCAAATT TTCAATGGTA AAAAATTGTT	180
	TCTCTTTTAA AATAGGAACT ATTCTTNGCT CCTTAACAAA GGNCCCTTTT CCTCTAATTG	240
25	TT .	242
	(2) INFORMATION FOR SEQ ID NO: 1455:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1455:	
	ATAAAATTGC AGACTTAGAT TACTCTTGTT CAGCATTTTT AATGTATATC GGTATAGATA	60
40	TTGATGTGAC AGATCAAGTG AGACTTGCAT AnTGGTATTT TATTCAGATG	110
	(2) INFORMATION FOR SEQ ID NO: 1456:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 551 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1456:	
	ACCAGTGGTT GCCTTTTTAA GTCCCGCGTG GGACAAAAAT TAACCTCTTT ACACTTGCAA	60

	AAAGCGCTTG CAATATATT TCGATTTGTE ATTCAACMAA ACGTTTTATT ETATTCGCTG	180
	TAGTCAAATG TATACCCTTA TACTGACTCG aTAATCATTT GCTTATNATT TGAGACTAGG	240
5	ACATAAATCA ATGCTCTAGA ATCCAAAAAG TCACATTAGT AGTAGTTAAC CGAACGAAAA	300
	TGCACTTGTA ACAAGCTTTT TTCAATTAAA GTCAGGGGCC CCAACATAGA GAATTTCGAA	360
10	ATGAAATTCT ACAGGCAATG CGAGTTGGGG TGGGACGACG AAATAAATTT TGCAAAAATA	420
	TCATTTCTGT CCCACCTCAC TCAAAATAAA TTTCACTATC CGTAAAATAA ACAACTAACT	480
	ATTTAAGTAT CATCTCCCC CTAATTAACA ATTATAAAAA TAAGAACCAA TATTCGAGAC	540
15	AACCTAATTA A	551
	(2) INFORMATION FOR SEQ ID NO: 1457:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1457:	
	ATCNGGGGCT GCATAAGCGA TATCAAGTGT GAGCATTGAA CGATTCAGGA CTGACCAGCA	60
30	CGCCGTTTGC CTGCTTTGAA AGATCCACCG ACAAATCCGC CAACATCGT	109
	(2) INFORMATION FOR SEQ ID NO: 1458:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1458:	
	ACCAGAGCCT CTTTGACTTC CTAAGTCGAA TAGCATCGTT GATATAGTTA AAGATGACGC	60
45	TAGATTTAGN AATCCAAACT CATAACACCT CCACCATTCC ATCACATCTG GA	112
	(2) INFORMATION FOR SEQ ID NO: 1459:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CCCCAACCAA TTTTTTAAAA AAGGGGGCCT TTGGGGGGGC CAACCAAGGG GGAACCCCTT	60
	AACCCCAATT TTGGCCAATT TTAAAGGGAA GGCCTTGGAA CCTTTTTGGG AATGGGCCGG	120
5	TTTTAAACCC TTGGTTTCCG GAAGGGGAAA ATTTTTAAAA AAACCGGAAT TGGTTGGCCC	180
	CCTTTAAATT AAAAAGTTCC CTnAAAAAna AATTCCCCCA AGGG	224
	(2) INFORMATION FOR SEQ ID NO: 1460:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1460:	
20	TTTCGACAAT CAATTCGACG TCAGTGCCAC TCCATCTATA GTAAAGCGTT GATACTTTCA	60
	ATAATAACTG GATCACTGTC TAATTATAAA TGGATTCTTA CATCCCACCA TAATAAATTn	120
	CATATGTTCA TCACC	135
25	(2) INFORMATION FOR SEQ ID NO: 1461:	
<i>30</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1461:	
	TTATAGAACC TCGTACTCCT nTCGACACTT GAATTTAAAT CAGAGCCGCC AGTGGAGAAG	60
	CATGAATTGA CTGGTACCAC TCGCAGAAAG TAATGATTCT AAGCCACTTG ATTA	114
40	(2) INFORMATION FOR SEQ ID NO: 1462:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1462:	
	GTTGAATTGT TGGTGATGTG GTTACACGAA TTTCGAATAA TTGTTCTTTA CGTCAAAACG	60
	TATCGTTCCA AAGTAATCCC CNGGTAATAG TTACCAACAA GTTCA	105
55		

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1463:	
	TTGTATGACT CTTCGGACTT TGGTAAAATT GTGAACGCTG GnTGAATGAT TTTTGTTTGA	60
	CAATTGGCCT TATCATCATT AATCGTATTT TTAAGCTGCT CGGATATAAG TTCTCAGCGA	120
15	GTTCTTTTG ATGTATCATT AGTGTAGAAA ATAGCTGTTT GT	162
	(2) INFORMATION FOR SEQ ID NO: 1464:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1464:	
	TAAATTGGAA AGTCACATTC AANATGCGAA AATGTTTTAA AATGTCCTGT AGGTGCTTAA	60
30	TAGTTTTGCA TTTGCAAATT TTACTGAACC GGTTTAAACG AAT	103
	(2) INFORMATION FOR SEQ ID NO: 1465:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1465:	
	AAATTGTATA ACTACCAAGC TTATATGAAA TGGTAAACAA AATATTATCA CTTGTTTGAT	60
	AAGTAGCGTG GAAAATATTG TATCTTTCTA AATGTACACG TTAGAAnTCA TGCTTATGTA	120
45	TTACACGCGG GGCACTGGTA CCTAAGGGCC TAT	153
	(2) INFORMATION FOR SEQ ID NO: 1466:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1466:	
	TTTCAGTAAC ATATGAAAAC TTAATTAACG ATGTTCAGTA GGTTCATACA TTTTACTTTA	60
5 '	TGATGCTTAA TTGAATTACA nTTAAGATAT GACCAGCTAA AAAGAGTTAA TGTGATATTT	120
	AACC	124
10	(2) INFORMATION FOR SEQ ID NO: 1467:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1467:	
20	AAGGAATTAA GTTTGCGACA CCAGCAAATA GTACTAATAA AGGAATATAT GGTAAGTCAA	60
	TAATTGAATA ACCGATATAT AAGAATATAC CTAAAATAAC ACTGACAGTT ACTTGACCTT	120
	GAATGTAAGA TTTTAATGTA AAGTTTAAAT CAGTTAATAA ATCTACGAAA AATACTTTAC	180
25	GTTCACCTTT GARAAATTTA GCAACAGCTG GGATAAATTT TTCATGGTCT TTTAACATAT	240
•	AAATTAAGAA GAATGGAACC ATAATCAATA AGAAGATGGT TGAAATTAAT GATGTAATGT	300
30	ACTGTAATGA ATTAGATAAn ATATTAGnAA CGCCATCACC CATTGATTTA ACCA	354
•	(2) INFORMATION FOR SEQ ID NO: 1468:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1468:	
	TGCAAACTAG GAACAATAAT GTTAATATAA CTATGATGNA AGTTAAAAAA TAAAAAGGAA	60
45	CACTCTATAA TATGAATTAG GGTTTACAGT TTTTTGAGTA TTTTACAGTA TCAAAGTTTA	120
70	(2) INFORMATION FOR SEQ ID NO: 1469:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 476 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCTAAATGCT GACTAAAACT AGCAACACGA GACTCATTAT TATTAGACAC GATTGTAATA	60
	GTGATTCCTT TTTCATTAGC TTCCTTAAAC CATGCTTTAA CACGTTCTGT AGGTTCTTTA	120
5	ACATCCCAAC CTACTAGCGT ATTATCTAAA TCTGTAATAA TACCTTTAAC GCCTTTGTCC	180
	ACTAACTTGT CTAAATCAAT TTGAAATATT GATTGAACAT ATGAATTCGG CATAAAAAAC	240
10	TTGCGAACTA AACCCATTTA ACTCACCTTT ACCTTTTTAT AATTGAGACA CTAATGCTTC	300
	AACAGTTTGA CTTGATGATA CAGCTGCTTT TTCTAAAAAT GCTTCGAAGC TCATTTCCGC	360
	TTCTCCATTT GCTAAGTCTG AAACTGCACG AACTACAACA AATGGTACAT TAAATTGATA	420
15	ACATGTTTGT GCAATTGCAG TTGCTTCCAT TTCAACCGCC ATCGCATTTG GAAATG	476
	(2) INFORMATION FOR SEQ ID NO: 1470:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1470:	
	CACCATACAT GGGTAAGGAT ACTACTCAAA TCAACTTGAA ACCAATAATn CATGACCATA	60
30	TGTGTGCCAA TGAATTCAAT TGGAAAGACA ATGATGAGAT ACTATTAAAA CGATTATATT	120
	TATTGTCACT TGTTCAAACG CACTCCTTTT CCAAAT	156
	(2) INFORMATION FOR SEQ ID NO: 1471:	
.35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1471:	
	AACAAAAGTT TTGAAAAAGCC GGGTGCCAGC GAAAACTTAA AAAGCACTTT ATCAGAAAAA	60
45	GCTAAGAAAA AAGATTAATA TTCATTCATT AAATATAAAT CCAATTTAAT TTGTTGTTTA	120
	AGGTCTACAA GTGTATGTTT AATATACAAT TCATCGTTTG ACGGTAAATC AGATACTTTG	180
50	AAATCTTGTC GCTCAACCTC TAGTAAATCG AAATCGCTAC CAGCTGAATT ATAGGTTTTA	. 240
	AGTTCACCCT CTTCAATGAT TCTGTTTTCA AAGTCTTTAA TAACTATAAA TACTGGTTTA	300
	CCGTTGTTAT TAAACAACTT GTCTCTTTTG TCTAATAAGC TTATACAATC CAAATTCATA	360
55		

(2) INFORMATION FOR SEQ ID NO: 1472:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1472:	
	CTAGGATTHC ATCTATTTGG GATGAAAATA AGCGTTTCCT GAATCCACAA GAATATCCAG	60
15	TCGATTTAAG CCAGGCATGT TGGGGTAATA ACATAACGTT TTTTGA	106
	(2) INFORMATION FOR SEQ ID NO: 1473:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1473:	
	TATCTTACCT ACATTGTTAT CTGATGGCTG TAATCATTAA ATCTATAACA CCGAGTTCTT	60
	CCATTAATTT TCAGCTTCAT TCGACTGCCT TTTTATnTTT CGTACTATTA CGAATTT	117
30	(2) INFORMATION FOR SEQ ID NO: 1474:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1474:	
	ATGCATGGCA CTGGAAnCAG CTGGGAGATA TAGGTAGTAT CCTAAAGAAG TTCAGTTAAT	60
	CGGAGCGATT GTATTGCATG AAGGTAACAT TGCGGAGTGC CAACAGGCGA AGTAAAACTT	120
45	AACGGCAACC ATGCCTTATA TTAAATGCCC TTCCGGGAAA GGAC	164
	(2) INFORMATION FOR SEQ ID NO: 1475:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1475:	•
	ACAGCAAGAC GTGACAAATC AGATACTATT AGTCATCAGC GTTAACATGT GGATANGTGT	60
5	GAGGTACGAA TANCCGAAAG GAAATACGAC CTTTAACATT CGCGCACAAA ATGAGCTCAG	120
	GCGCCTGCCT TGCCCATTTT TTAAATTATT TCCCTGGAAA TGATTCGCTG TGTGCTGTTC	180
10	TGTCCACAAC AACACGATTA ATGCCATGAC	210
	(2) INFORMATION FOR SEQ ID NO: 1476:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1476:	
	AGGGTGATTT CACGGTTCGT CTGCCCATTT AATTGCGCAT TTTGCACACC ATCTACCGTT	60
	TGCAATTTTG GTATTAATTG TTGCATGCAG TACTGTCCGT TGACTTTGnT GCAAGTGCAT	120
25	GCTCTTTC	128
	(2) INFORMATION FOR SEQ ID NO: 1477:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 641 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1477:	
	AAAATCTGGT AAAGTAACTA GAGTTTAATA AATATATTGC ACATAAAAAA TGTGACCTTA	60
40	TGTGGAGGAC ACATTTACTT AAGAACTAAG AGCTCAACCT CTTAGTTCTT TTTTTGTTAC	120
	CAAACAATAC ATAATGGTTC ATAGTGAAAT TCGAACTATC AATATAATTT GGTTAATACG	180
45	TTTAATAATG GTTCTCTGTC AAATTGGACT TATGGGTTCA ATATCGATTT TGGCACATAA	240
43	ATCAATGTAC TAGGACCTAC AATTTTCCTT TCAATAATAA ATCACGCCAT AATCTTCATT	300
	AATTACAGCG TGATTCATCT ATTATTATGT TATAAATKCT ATCTATAAAC GTCACTTTAT	360
50	TARATARCTC ATGCACTTTA TTARARATCC TCACARATTT GARTATACTT ARTTARATC	420
	TGTACTTCTA ATTTGCAAAA TCAACCCATC ATGTACAGTT ACTTTCGCTT GCAAAGACTC	480
	AATTTCATTT GAAATAGTTA AAGTAGAACC TATATHAAGC ATTTGTCTAG CTAAATTATA	540

	GATAACTCTT ATCTTTTCA ACTGTAGGTG ACCTTTAGGG C	641
	(2) INFORMATION FOR SEQ ID NO: 1478:	·
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1478:	
15	TTAACCGTGA TGCAGAGTAG TAAGTGGATN CATGCTCTGT TATGGATGAC AAGACAAAGC	60
	AGCGAATATT GCGTACTGCG ATTGATGAGC AGATGCATAT GATTGGATTG	120
	c	121
20	(2) INFORMATION FOR SEQ ID NO: 1479:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 133 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1479:	
30	ACCATTGCTT AGATAAATAC CTCGCAGTGA ACCGCATTAG TATAGCACTT CTAGCTGATC	60
	GCATCAGTAA AGTATGCTAT TAATGTCTCA GTTTTATCTG TAATGCATGT TTAAGTTAGT	120
35	CATAGCATTA TTn	133
	(2) INFORMATION FOR SEQ ID NO: 1480:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1480:	
	TTTTGGGGnT TTTAAATTTT AAATTCCCGn TGGGGGAAAT TCCCTTAAAA ATTCCCAACC	60
	CTTTTAAGGG GTGGGGGTTT TTTTAGGGAA AAAGGGGCCC GGGGTTAATG GTTCCCAAAA	120
50	AATTGGGGAA AATGGCCCC CAAATTTTAA ATTCCCGGTT TTAAAATTGG GGTGGGTTAA	
	· · · · · · · · · · · · · · · · · · ·	
	ATTGGAAAAA CCCCCAAATT T	201

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1481:	
	CAGTATCAAG CATAGTAAAA AATGAGGGTA GGACTGAAAA TACGGCGTTA TTGGTGGTGC	60
	ATTCACGGTA AATATGTTGC ATGACCAGCA AGTTTTGGnC TTCTGATGCA CC	112
15	(2) INFORMATION FOR SEQ ID NO: 1482:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1482:	
25	CAAAAAACAA GTTCTGATAT GCAGTAGCTG AATAATTTTG CTAGTTACAC CAAAGTGATC	60
	TTCTGGTGTT TTACTTTTTA TAAATGTTTT CATATATTTC ATATGTATAA AAATGGGATT	120
30	TAGCGTA	127
	(2) INFORMATION FOR SEQ ID NO: 1483:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1483:	
	AGTGGTGTAT TGGGTGAGTA ATGCTTAACT TCATACCTGG TGCATTGGCT GTTCAGTATC	60
•	ATTATATCTG CATGGGCGAT ACT	83
45	(2) INFORMATION FOR SEQ ID NO: 1484:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TATTATTGAT GITCTTTGGT TCATTCTTTG GTAATAATTT TGCACTTGAA AATTTACAAC	60
	CGTTAGCTGG AACCTAGnCA AAGGGATGGG TTTAGTGGTC TATTGTGGTAT	120
5	TCCGTGGGCC ACCCCATGGG GCCATTATGG TTTGGGAATT TTGGGAATAA ATTAATTTnC	180
	CCAACCAAAA ACCAGGCCAA G	201
	(2) INFORMATION FOR SEQ ID NO: 1485:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 210 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1485:	
20	CTCACAGCAA CATCAAAGAG GCAGATATTA GTCAAGTTCA ACGTAATAAC ATCTACCTTC	60
	ACAAGTCGAT AAAGGAGCAC CATCATTAAT AAGTAGATCA ACAAGTCAAC GAGAATTTTA	120
	ATGTGCAGAA TAGAGAAGTA CACCACACAn ATAATCAAGC GATGTAATTA CTACTACATT	180
25	TTHCATGACA GAGTGAACCT CAACAGCGGT	210
	(2) INFORMATION FOR SEQ ID NO: 1486:	
<i>30</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1486:	
	CAGGTTATGT TTGCATTAGA AGTTCTTGGA AAATCTTTAT GGAACGTGGT TTACACCCTG	60
40	ACTITGAATT GCATCGATCT GATGAAGATA AATGAAATTG AATGGGATGG CCDACATGGA	120
	ATGCAACCTA TGACTTGGAT GGAATTAGAT GAAGCGGG	158
	(2) INFORMATION FOR SEQ ID NO: 1487:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1487:	

	TTGCAGCATA TAGAGGTAGA GGCATCGCGA CAAAGTTATT AACGTCATTA CTTG	114
	(2) INFORMATION FOR SEQ ID NO: 1488:	
5 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
		-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1488:	
15	TGCTAAGTGA TAAAAAGAAT GATAAGCCAG GTGTACCAAT GGGTCCTGGA TTAGACCATT	60
	TGGGAGATAT CGTTGTACCA CATGTTGATC AACTAACGTT nCCACATG	108
	(2) INFORMATION FOR SEQ ID NO: 1489:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1489:	
	CAANACGTAA TTTCATGATG AAAGTGGTCG ATAATTTCTT GAAACATCGC TTTCAGTAAT	60
30	AACGCCTGCT TTAAGGTCAC GTTCCGCATA GGTGTACTGA GGATGTTGAT GT	112
	(2) INFORMATION FOR SEQ ID NO: 1490:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1490:	
	CAGAACGTTT AAAACAAAGT TGGAAAAGTT TTCTAATCGT ATTAGCTGCA TGTTTAATAC	60
45	TTATTATTGC AAGTGAAACG CTTATTTTCC TTTAGTCATT TGACCGATGT TAAAGAGGTG	120
	AGATGGTTAT TTAGAATCAT TGTATTGATT GTTTTTGCGG TAGTGATGTT CACAATTTAT	180
50	ATCTCTTATC ATCATTATAT GAATGACTTT TTAGTTACTA AGTTATTTAA TATTTCCGCA	240
50	GCGACGCCAL AGTTATTATG TCTAT	265
	(2) INFORMATION FOR SEQ ID NO: 1491:	

5	(A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1491:	
10	Charattege caggegetea tecartatta aratageest acgaegeatt artagaeeae	60
	CTAATGAAAC GCGTTGGTTG TTGGACCTCC AGATAAATCC TGGGGGTCGG TGG	113
	(2) INFORMATION FOR SEQ ID NO: 1492:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1492:	
25	ACTAAGAAAA TCCGAAATCT TTTCCGCTTC TTTTAAATAC GTAATACTTC CTTTTTTCG	60
	CTCTAAATGT TTGGCATTCA ACTCATAACT ATTCATTAGT TTCGTTAAGC CTTCTGCATG	120
	ACTCTCATTT TGAGAAAAA TTTCCAAATG GTACGAAGAT GTTTCAGGGT TATTCACTGA	180
30	GCCACCTGCC AGAAAAGCTC CTCTCAAGTA ACTGCGTCTC ATTTCGTCAT CTTGAATCAT	240
	TGAAATGATC AATTTCATGG CGnnAAAATG CCGTCT	276
	(2) INFORMATION FOR SEQ ID NO: 1493:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1493:	
45	GATGACGAGC GCCAATTATG TCACTTTTAT GGCAAAAGCT GGAACTAAAC AACCNAGCCT	60
	GCCAGTAAAA TTGGCAATTG GGACGTTCTT AGCAGGTGCG TCATACATAC	110
	(2) INFORMATION FOR SEQ ID NO: 1494:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1494:	
	AAAAAAAAGG TTTTTTACCC GGAATTCCAA AnTTTTAATC CCTTAAAAAA AATTCCGGCC	60
5	AACCCCCAAA CCCAAGGTTT TTTCCTTAAC CTTGGAAnTA ACCAAGGTTT TTTTTCCAAA	120
	AAATTTTCCA AAAAAGGAAT TACCCAAACC CTTAAAGGTT TTAAAATTGG GGGGGGAAAA	180
10	AGGCCCTTTT AGGGGGGAA	200
	(2) INFORMATION FOR SEQ ID NO: 1495:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. -
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1495:	
	AAAAAATTTG GTGCATTTAT CATATGGAGT ATTAATCTGT AGAAGTAAAG GCGATATAAA	60
25	TGTTACTTTG GTAATAAAGA TTACAGCGAA CGTTATTATT GCTCAGGTCA GATCAAGAAA	120
	TTGGTGTCCG GGTGACAAGA CTTGGTGGCG CGGTGTAGTT TGTCAGTTGT GTGGTCATCT	180
	TAAATAACGC TATCGTACGG TGTGTATCAC ATGAAGGGAC TCTTACTAAT TCTGCAAGTA	240
30	CACGTCACGC nnT	253
	(2) INFORMATION FOR SEQ ID NO: 1496:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1496:	٠
	ACGCTAGCTT CTGAAAAAAT AAGTGAACTA TGGATGCAAT GAnCCTATTC CTGAATGATA	60
45	TTAGACGTAG CGCACCTGGT GCAGAACGCC AATAAAAAGA CAAG	104
•	(2) INFORMATION FOR SEQ ID NO: 1497:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AGGGAGGCGC CCAAATGGCT CTATATTAAA AAAGGACTCT CAGAGCATTA ATGAAAAGTT	. 60
	GAAGCTCAAA AGGAAnCGAA AGAAACAAGT ATCAAAACAT	100
5	(2) INFORMATION FOR SEQ ID NO: 1498:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1498:	
	TGGAACTTTG GGGAAGTCAA ACGGTTGTAA TCGTTGAACA TAAAGTTAAA CACATTCTGG	. 60
	ATCATGTCGA NCGCGTCCAT TTGATGGATA TAACGGGAAT A	101
20	(2) INFORMATION FOR SEQ ID NO: 1499:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1499:	
	AGTTCTGGTG CATCGTTTTT CATTGTATTT GTGACGATTA TCATTCCAGC ATTAGAATAT	60
	TATGCATTAT ATTTAGGTGT GATAGGTGCA TITATAGGTG GTTTAACTGT TTATACACTT	120
35	TCAGGTG	127
	(2) INFORMATION FOR SEQ ID NO: 1500:	
.40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 560 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1500:	
	TCCCCGCTTT AATACCTTCC ACGATTTCTT TAATTGCTTG CGGTTGGTCA CCTTGAGGCT	60
50	CAAAATCAGA ATGTATTTTA AAAGGATAAT GTTCAACCAT TGTCACATAT GCCTCCTCTT	120
	TCAACGTATT ATTTATATTT CCGCTCAACT CTTTGCTTTC TCATHACATA THTTAGCAAA	180
	GTAGTCACAC AAAAAGCAAA CGTTKGTTCG TAAAAATGTC GAACAAAGAA AnACAAACAT	240
<i>55</i>		

	AAATACACAT TATATTAATC ATCATTTTGT TTCAACAAAT TTGTTTGAAA CATTATTTTA	360
	AAGTTAATCT TAGCGATCTT CATCTTGATG TTTATGAAAT TCGAGTTGAT CTATAATTAA	420
5	ATAACCAGCT AATAATGACA CTACATCAAT AAAAATAATC CACTCGTTAT GGAAATACTC	480
	TITATAGATT GAGGCACCAA TTAAAATTAA TGTCAGAATA GTACCGACCC ATTTACTTCT	540
10	TGTTATTACA CTAAATAATA	560
	(2) INFORMATION FOR SEQ ID NO: 1501:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1501:	
	ATTAAATCAT ACTHACAATT ACCGATGACA TTATTCCAAT TCAATCTAAT TCCGTGATGA	60
05-	AAGAGCCACG TTTTGGTTAC TTCGTGGGCG TGAATTATTA TG	102
25 ·	(2) INFORMATION FOR SEQ ID NO: 1502:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1502:	
	TATGGTAGCT CCAAATGGTT GTATCGTCAC ACCATCATCT TCAAGTGCAA TGCGATGTAA	60
	TCGATTGGCT GTTGTTTCTG TTACCCATAG TACTTTTTCA TCTGTACTTA AAGCAATACC	120
40	ATTTGCTACG CTAATATTTT GAATGATAGG CGTCACTGTT CTAAAGTCCG GCGAAACATA	180
	ATAAACGCCT CCTAGTGGAT TGGTAGAGTA TCCTCTAAAA TCTGTAAAAT AAAATCCACC	240
45	TTTAGAATCA AATACCATGT CATCAATACA ATATGCTGTT GAAAGATCTT CAATAATATC	300
	TTGTAAGTTG TCACCATTTT CTGTAGCTGC AAAAATGCCT CCnGGAGATT TAAAATCTCC	360
	nAAAATAACC AACGNATAAA TCGGGCANCT TATGGAATTG	400
50	(2) INFORMATION FOR SEQ ID NO: 1503:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1503:	
5	TACAGGTAGT TAACAGTTGA TGTTAAATGG CGTACTGGAT TCTTTACGCA CGATTTTTTG	60
	TTAATAAGTA TGGGATAGCA CATTACTATA TCCTACTTAC GACTTATTGG ATATGTCnTA	120
	GCTATTCTTA AGCTCGAAAA GTTTCACAGG ATACATAAGG GACCAACT	168
10	(2) INFORMATION FOR SEQ ID NO: 1504:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1504:	
20	CTACTGATTG TGTAATGTCG TTGGTAGGCT TGGGCTGTAC GCAGTATTAG GTGTAGGCAA	60
	CTTGGCTTTT GGCATCTACC TTGTATGTGT CGTGTATCTA nGGCTGGGGC TTGCTCCTTC	120
25	AGTTGTTAGA CAGTAGGGGG TAATCTCAGG GGTGCAATGT ACTCCCTCCG TCCTAAAATA	180
	CTMTATATGC TCGTGCCGAA TTCCTGCAGC CCGGGGGATC CACTAGTTCT AGAGCGG	237
	(2) INFORMATION FOR SEQ ID NO: 1505:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1505:	
	CGCATTTACC ACCATATGAT GGATCCAnCG ACGTTTTAAT AAAGATAAAA GTGACAGTAG	60
40	CGGGAAAACA GGnCCATAAT TCACATCTCT TTTGAAAAAT ATGTTCAAGC TAGGATCATT	120
	AGGAGAGTCA TATTAATAAT AAAAATGTTG CAATCAATCG ACGTGCGTTG AATCTTAAAT	180
45	ACATAATAAA TGTTGTAGAA GATATGGGT	209
	(2) INFORMATION FOR SEQ ID NO: 1506:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1506:	
	AAAATGTGGC TATTGATTTT GACTTGGAAC TTTTTGAACA TTTCTCTCAA GGATTTAAAT	60
5	GTAGGTAACA GGGCAGGTAC TACGGTACTT nCCTATTTT TTATGCAAAT TTTAAAAAAC	120
	A	121
10	(2) INFORMATION FOR SEQ ID NO: 1507:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1507:	
20	AATGACAAGG TCAGCATTAA AACCATTTAA AAATAAACGC GTTATGGTTA CTGGACGTAT	60
	ACAACGTGTT TTGTTTAAAA ATTATTTAGA TAGACATAGC ACATTTAAGC CGAATGTAAG	120
	GATATTATTA AAAGANGTAT TTGT	144
25	(2) INFORMATION FOR SEQ ID NO: 1508:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1508:	
•	CCGATTGAAT CTGTGTACAC TTCACCAAAG ATATCTTTCT TCGTTTCTTC AGATAAACTT	60
	TCCATTGCTT TCTTATCAAC ACTTGTTTCT ACTAATAAGT GTGTTAATTT GTGCTTmTTA	120
40	ACAAACTCAA TAGCTTGTC	139
	(2) INFORMATION FOR SEQ ID NO: 1509:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1509:	
	TCTGCCTGCC TCGGCCTCCC AAAGTGCTGG CATTACAGGC ATGAGCCACC ATGCCTGGCT	60
55		

	CAAGTTAAAA TACAGATGTA AGACTTGACT TGATC	155
_	(2) INFORMATION FOR SEQ ID NO: 1510:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1510:	
15	ATCCCAATGC TAATGAATTT GCATATACGA TAAATAATGC TTTTTATCAT CAATAAAGCT	60
	ATGAATCTTT CAAGATCTTC ATTGAAC	87
	(2) INFORMATION FOR SEQ ID NO: 1511:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1511:	
30	ATAGGCGTTT ACCAGTTATT TTCGAATCCA TATAATTATG TTTGTCCGTT TGGTTTAATC	60
	CAATTAATTG ATTAAGTTTT TCCAATTCCT TTTTTTTTAA TTAAAATTCC AATCCTTAAA	120
	AAAAATTGGA AAAAAGCCTT AAAAAAAATT GGTTAATTTT CCCAAGGGAA TTAAAAATTT	180
35	TGGGGTTTTT TnAGGnCCCT TTTGGGAAAA ACCCAAC	217
	(2) INFORMATION FOR SEQ ID NO: 1512:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1512:	
	TGACATTGCA TCGGATTATG TTACATCANG GACAACGGGC CTCAAAAAGC GGTGCACAAA	60
50	CGTTCCGTAA TCATATGCCA GTGCAATCGG ATGTAAAGAG A	101
	(2) INFORMATION FOR SEQ ID NO: 1513:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1513:	
	GATTTTATTG AAATGATTIT ACCTGTGATC AATTATTGTA ACAAATCTAC AATAAAATTG	60
10	TCTTACTGCA TGACCTAATA ANATAGCAAC AGATATCATA CACACTTGTA ATTT	114
	(2) INFORMATION FOR SEQ ID NO: 1514:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1514:	
•	ACATATACAG GTACGTGTTT AGTCCGTCGT ATACTGCAAA ATTATGTCCG ATGAAATTAG	60
25	GGGAAAATTG TAGAACG	77
	(2) INFORMATION FOR SEQ ID NO: 1515:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1515:	
	CCTTATAAAG TTAATGCAAG CAACATGGAC AAATTATTAN TTGAATAAAC TGCAAGAAAG	60
40	ACAACAATCA TTCTTCGGAA TGCTAGGAGA ATATATTTTA GA	102
40	(2) INFORMATION FOR SEQ ID NO: 1516:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1516:	
	CAATTTTAAA TAGGATTTTT AAGACCTTGG TTGGGTTTTG GTACAATTAA TGGGGACATG	· 60
	ACTAGGTCTT GCCACGTTTA TATGCATCT	89

5	(A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1517:	
	GTAAGAGTGC ATAGTTTTTA AATGTTGCTT GTCTGGTmTC ATTTTGGCAC CATACAGTTC	60
	GTACCTGGAT TAGGGAAATG CCAAATGTCC GCGTAGTGAT AT	102
15	(2) INFORMATION FOR SEQ ID NO: 1518:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 448 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1518:	
25	GAGAACTCCT TACCACAATC AAAAGTAATT GATTTAAATA TATGAGAAGA TAAAATGAAA	60
	AGGTGCAAGC AGTATTAAGA ATTTAGGTAG CAAGAAAACA AGAAGTGGTA CATACGATGC	120
30	TAACCTAAAA AGAATTGGAG ATTAAAATGA TTATTAACCT TGAAACACAA CAAATACATT	180
,	TTGATTTAGA ACATGAAATT CCCTATTTTC AAGCACCTGA GAAAAATAGG ATACGCTTAG	240
	ATATTGATGT TCTCAATAAA AAGCNAATTT CTAATATTAT TAATGTTATA TTTAATAACC	300
35	AATCAAAGAC GAAATGTACA TTTTTGTCTG AATACTTATA TCCTGTTAAA TTTAGAGAAA	360
	AAACAAGAAT TGGTCGTTTT TTTAATATTA CTAACTGGTA CGAAGAAATC CATTCTACCG	420
	ATGAGAAGTA TGTDATTGCA ACTATTAA	448
40	(2) INFORMATION FOR SEQ ID NO: 1519:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1519:	
	ATGGACGAAA GAAGATGTCA TTGCTTTTGA AAACCTAACA AATATTAAAG TAAATTTAAA	60
	THE PARTY THROUGH AND THE PARTY TO THE PARTY OF THE PARTY	120

	ATTCAAATTC AGATGGTMAA GAAGAAATCT GACAGTTAAA ACTGACAGGG ATAAGTCGGG	240
	ACTHAACAGG AATGGGCTAC NTTTAAATTT AGGGATGGTA TTGGGCCACT ATTTGGTTTT	300
5	TGAC	304
	(2) INFORMATION FOR SEQ ID NO: 1520:	÷
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1520:	
	ATGACGTCGC ATGCACGCGT ACGTAAGCTT GGATCCTCTA GAGCGGCCGC CCTTTTTTTT	60
20	TTTTTTTTT TTTCTGTTGG CCTTTGATAA TTTTATTGGA TCAGTAACAA CTTTTTGTGT	120
	TTCAACTAAG ATAGCTAAAA TTCTAACACT TATATGTAAA AATTACACTC CATITTAGCA	180
	CAAATGTTAA CAGAAATTAA CAGCACAGTG CCATGAAGAA ATGAAAAATA CACAGCTTTG	240
25	GTAGGGNAAT GGTCCTGGAA ATAATGTAAT GCCAAGTnTC TGATCATTTA ACATATCACT	300
	CACCTCCTTC TTCATCTGAT GT	322
	(2) INFORMATION FOR SEQ ID NO: 1521:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1521:	
40	TAAATACAAA CCCTTTAAAC ATATITACTA AGTCGTTCAA TTGTTGATTT GATAAnTGAT	
	GTGATGTGGT ATTTTGCATC GGTCCTGCTT GATTCCAGAC ATGTC	105
	(2) INFORMATION FOR SEQ ID NO: 1522:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1522:	

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	GATCGTATTT CCCAGATGTA AATTCNGTGG ACAATTGGCG TCAAATAGCT TCTAGTGG	118
	(2) INFORMATION FOR SEQ ID NO: 1523:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 157 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1523:	•
15	CNGCATATAA TCCCGCGACA TGTCTTTTAC GGGTGCACTT GTAATATTAT TACCCCCCGT	. 60
	ATAACCCATG TATATCTATA CTTTACCACA TAAAATAATT CCGGGACTAT TTGGCACATG	120
	TTTTGGGTGA ATTTCTTTAG TGGCACACCA CCCCTGG	157
20	(2) INFORMATION FOR SEQ ID NO: 1524:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1524:	
30	ACTGAGGTAG GTTATGTAGG ACGAGATGTT GAAAGTATGG TTAGACATCT TGTTGATCCT	60
	TGAGTAAGAT TAGTCAAGGC CG	82
35	(2) INFORMATION FOR SEQ ID NO: 1525:	
33	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1525:	
45	GATACAAAAA AGAAGTTCAA TTTGAACTAT GAAGAAATTT ATATTTTAAA TCATATTTTA	60
	AGAAGTGAGT CTAACGNAAT CTCATCTAAA GAGATTGCTA AGTGCTCAGA GTTCAAACCT	120
	TACTATTTAA CTAAAGCTTT ACAAAAGCTA AAAGATTTAA AATTGTTATC AAAGAAAAGA	180
50	AGTTTACAAG ACGAAAGAAC AGTTATTGTT TATGTTACAG ATACACAAAA AGCAAATATT	240
	CAAAAACTGA TTTCAGAATT AGAAGAATAC ATTAAAAATT AAATCAAGGT TAATTGCGTT	300

	AAAATTAACT TAAAATTTAA ATATTGAAGA GCTTAATTAA	400
5	(2) INFORMATION FOR SEQ ID NO: 1526:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1526:	
15	ACTGTCTAAT ATTCACTCCC TTAAAGTGTT TTTCATATTT TTCTATTAAT GTTCATATTG	60
	TAGGGTGTTG AATGCATCTA AGCATTMCAA GTTATTCTCC AAGTTCATCA ATTTCAAAAT	120
	GGAAC	125
20	(2) INFORMATION FOR SEQ ID NO: 1527:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1527:	
	CATGITTATT TATGITTCGG CTTTAATGTT GAAGAGTTTT ACAAAGTTTA CCGATTGCAT	60
	TTTATAATTT TAATGCATTA TTGGAGCATT GGCTATCATC TATTACTGCG nA	112
35	(2) INFORMATION FOR SEQ ID NO: 1528:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1528:	
45	GCGAAGATGA GGATGAGATG ACTAAAGGAA AATATTGAAA AACAACCAAA AAACTGATGA	60
	ACATTATTAA AAATTTACAA AATCAAATCG ACAACTTGAG CGCAAGAACn AACAG	. 115
50	(2) INFORMATION FOR SEQ ID NO: 1529:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1529:	
5	ATGGATCTTC CGCTTCTCTT AATTGATCAA TTAAATCAGA CATTTCATGT TTTTGTAAAT	. 60
	AATGATTCGC TTTAATGGAT TTTTTACATG ACATCATGAT TGCTACATCT TCACGTAATT	120
	TTTTGATATC TACTTTTTC TCTTCCAAAA TTAGCTCAAT CATATCTTTA ATAATTTCTT	180
10	CTACTTCATC TTTAGGGAAC CAAACTGGAT AGCTACTTAC AATATAATCA TGACCACCAA	240
	AATGTTCTAA CATGATACCT ACTTGTTGAA GCTCATTTTT ATATTGATCA ATGACTAATT	300
15	GTTCATCTTT TGAAAAATGA AATGTTAACG GGATTAATAA ATCTTGTACT TCATTGGTAA	360
	CCTCACCTAT TTNATCTCGA AAATATTCAT ATNTTATNCT	400
	(2) INFORMATION FOR SEQ ID NO: 1530:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 97 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1530:	
	TAACAGTCAA CCCACCCATT AATATATATT CAACGGCTGA CTGATACGAC GAACGTCAAA	60
30	GAATATGAGA GGAATAGGGA CAAGATCATC ACACATA	97
	(2) INFORMATION FOR SEQ ID NO: 1531:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1531:	
	TCATAACGGT GCAACTTAGA GCTGACGTAT AGTTCATTCC AACTATATAC GATGTATCAA	60
45	CACCATGTTC CAGTTTTAGG TTAACGATAC TGTATACCGT ATTATGTCAG NGGCACCTTA	120
	TCTTCACGTA CTTTACGGCG AGATGATGAC	150
50	(2) INFORMATION FOR SEQ ID NO: 1532:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 138 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1532:	
5	ATTCATTCTG CTAACCAGTA AGGCAACCCC GCCAGCCTAG CCGGGTCCTC AACGACAGGA	. 60
	GCACGATCAT GCGCACCCGT GGCCAGGACC CAACGCTGCC CGTCCTATCC TGAAGCCAAA	120
	GGAAATGAGA TCGGAATT	138
10	(2) INFORMATION FOR SEQ ID NO: 1533:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 460 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1533:	
	GGGGnCCnGG CAATGGAGGC GTGCTTGGAT GGTGCTTGGA ATCATCCCTT TGGCCTCGAT	60
	CATAAGCTTA AACTTTTGGT GCTGGNGCCA CTGGAGGGAA ATCTTCAATT CTGGCAAATG	120
25	GTAATTMCCT ATACCAACAT TTAAGGCATG TGGTAATGCT GGCTACTCCC GCTTCGTTAT	180
	CAGCTACATG ACAAATACAG ATGCCATCAC CTTTGCGTCC ATTTTAATCG TTGATGCTTG	240
•	GAAATGTTTT TTGTAAATAT CAATGTTATC CTTCGCTGTA TGTATCGCAT TTATATCTGG	300
30	TAGCAAAAAT GTTCCAACAG AAAGCCCTAT ACCTAGTTCG GCAGCTATTT TGGCAGATGT	360
	TGCGCTACTA CTTAATAACC ACATTTCTGG AAAATGATCA TGTGTGGTGC ACTACGATCG	420
35	ACTTGGTTAT CTTTATTGTT AGATAATACG GAATACGnAA	460
<i>-</i>	(2) INFORMATION FOR SEQ ID NO: 1534:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1534:	
	TACGCTAATA AATAGTTCAC TTTTCCATTT TGTGTAGTCA GCTCATTGTA TTCTTCAATT	60
	TGCTCTTCAT TTAATGCCGC ATAAGCTTGA TCAATAATAT TTGGATTAAG TTGTCCAATA	120
50	TACTCTAACT GGTCATGATA AACAn	145
	(2) THEODWATTON FOR SEC ID NO. 1535.	

5	(A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1535:	
10	ACGCGATTTA ATCGTTCGTT CCAACGATGT CCACTCCCCT ACTAATAATT AAAATCATTA	60
	CAAATTATTT CAAACTTTAC AATTMAAACT AACAGTTTTC TCAATAAAAT GCAAGCTTTT	120
	CTCATTTGTT ATTTAGAATG ATTATGATTT A	151
15	(2) INFORMATION FOR SEQ ID NO: 1536:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1536:	
	ATAATAGAAT CATTACAAAT TATTTCAGAC TTTACAATTA AGACTAACAG TTTTCTCAAT	60
	AAAATGCAAG CTTTTCTCAT TGTTAA	86
30	(2) INFORMATION FOR SEQ ID NO: 1537:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1537:	
40	ACCARACTGT ARAGCCATAT ACTGRACATA TTGRTAGCAT ACTCRATGAG ATCARATTAC	60
	ATCGTGAATT TATTATAGAA GTACCTTATA TGAATTCAAG GAAATTTGAG CTACTGATTG	120
45	CTAACATTGA ACAACTTTCT GTCGAATGTC ATTTTAAGCG AACAAGTCGA AAGTTATTTA	180
	TAGAAAAGCT TAAAAGTGTT CAATATGATT TACAAAATAT ATTAGATGGC GTAACACNAG	240
	AGGGTACTGA TGGTTAAAAC AGTTTATGTA ACAGGTTACA AATCATTCGA ATTAAACATT	300
50	TTTAAAGATG ACGCACCTGA AGTACATTAT TTAAAACAAT TTATAAAACA TAAAATTGAA	360
	CAACTGTnGG ATGAAGGATT AGAATGGGNG TTAATACAAG	400
	(2) INFORMATION FOR SEQ ID NO: 1538:	

(A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		. 5
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1538:		
ATATCGTTAC TGCTGTATGT TTCAATATCT ATATTCATAA ATTTCAAATm CTGACACCTC	60	10
ANTITOTITA AAATAAGGGG CAGAACCCAC TATGACTATA GGATCTCTCA CAGGTCAATT	120	
CGCAAATCAC TCGTGC	136	•
(2) INFORMATION FOR SEQ ID NO: 1539:		 15
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1539:		25
PARATATETE GGCACAATGA TGCGGGATAT TTTTTTACAA TAGGCATAAA GGCTGGAAAA	60	
ACATATCTA GTGCTATGAT ACTTA	85	• `
(2) INFORMATION FOR SEQ ID NO: 1540:		30
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		35
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1540:	·	 ·
CAATTTGTT TATTTCAACA AATTATCTTT ATTCCACGAT GTGCACAAGT GGTTGAAATC	60	40
GCTGAAGAC ACG	73 .	
2) INFORMATION FOR SEQ ID NO: 1541:		45
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		50
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1541:		

	TGCAGGAATT CGATATCAAG CTTATCGATA CCGTCGACCT CGAGGn	106
	(2) INFORMATION FOR SEQ ID NO: 1542:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. , .
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1542:	
15	ACATCAACTC ACCCATAATA TATATTCACG GCTGACTGAT ACGACGAACG TCAAAGAATA	60
	TGAGAGGAAT AGGGACAAGA TCATCAC	87
	(2) INFORMATION FOR SEQ ID NO: 1543:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1543:	
	GCTTATTCTG AAAAATATTT AAATTGAAGA AAAGAATATT CTAACTACGG AAGTGGTATT	60
30	AACTAATAAC TAGTATCCTT TATAAATAAA CATAAAAATA TTCAAACGAA GGTCTACTAA	120
	ATAACTATCC ATAAAGTGAG TATAAGTTTG TTTGTAAAAC TGAAGTAAAA AGCATAAGGA	180
	ATTACACTTT AAATACATAT AGTACTTACG AATAGAAAAT AATCCCTTCA ACAGTAATTT	240
<i>35</i>	TTAAACAAAA ATAAGTGTTG TTTTATGTTG ACTCTACTAG AATAACTTGA TATTATATAA	300
	AAGTCGTCAA ACGGCACTAA TATTTANNAA ACAAATGTTT TAAGTTGTTG GATTTNAAAA	360
	TATTGAATTA AAGTGTAAAT TTGGACTATT GGAAATTGCG	400
40	(2) INFORMATION FOR SEQ ID NO: 1544:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1544:	
	ATAACGCTAA TCAGCCACAT TCAGTATTGT TAAATGGACA CACAAGCAGT TGATGAAAAT	60

(2) INFORMATION FOR SEQ ID NO: 1545:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1545:	
	GGCTGTTATT GTTGTGGAGT TAAAAATGAA GGAAAATTAT AAACATGGTA AGCGTGTTTC	. 60
15	TCGTATTACT TTACTTAAAC nAACGGTATA ACCATACCTA ACTTAGTA	108
	(2) INFORMATION FOR SEQ ID NO: 1546:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 554 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1546:	
	AANTATGTTT CATATATTAT GAATCTAGCC TTAATCATAT TGCATTCAAA ATAATTTTAA	60
30	AAAATGAAAA GAAAGGATTT AGCATGCAAA AATTCAAAGA CTTTTTTTAC GATGATTTAT	120
	CGGTTACACG AGGAAATTAT TTTTTAACTT TAATGGCAGC ATTTTTTATT ACTATCATTT	180
	TATTTATCGG CATAGTTGTC AGTGAAGTAC ATTTACTTTA TAGCATGCTA ATTGTATTAG	240
35	TAGGTTTAAT TCTATTGAGG CTATTCAAAA TCAATTTATT CTCTTTTAAA AAATTAACAT	300
	TGTCTCAAGT TATTTATATT ATAGGCGGTG CACTATTAAT TTATGGGTTA GATAATCTTT	360
40	ATTTATATTT TCATGACGTA CCGGCAATGA ACAACAATTA GAGCAAGCAA TACGGAAATA	420
40	CACCATTCTA TATTTCTATT TECACTGTAC CATCATCCCC GCTATTGTGG aAGAAATTGT	480
	TTTCGCGGT ATGATAATAA GGGKTATCTT CAGAAAACAC TTGTTTTTAG GGTTAATTGT	540
45	GTCTAGTTTA GTTT	554
	(2) INFORMATION FOR SEQ ID NO: 1547:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TAAAGCAACA CTTTTAATCC CTTTTGAACT TAGTTTATCC GCTAAATCAT AAGCTTCTTT	60
	TTTGCTACTT ACAAAAATCA ATCCTTGTAA AATTTCACCT GAATATCCAT AGTAATCTGT	120
5	CTTTTGAATA ATATAATTAA CTCTTTCATC AGAAGTTAAA TATCTCAGTT TAGTTACATC	180
	ATCTTCTTTA ATACCTTGAT GTACATAATC AGTCACACCA AAATAATGAA ATGGGACATA	240
10	AAATATCACT TTCTAATGCT GCTTGTAACC TTATTTCATA TGCAATATTA TAATCAAACA	300
	GTTCAAATAT ACTTAATTCA TCTGGATCTT TCTGGTGGTA GGCAGGTCAT TCCCAGCANG	360
	AACTTAGGGT TTGGAGGTAG GTTAAAATAC TCGGTTGGAT	400
15	(2) INFORMATION FOR SEQ ID NO: 1548:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1548: CGCTCTAGAA CTAGTGGATC CCCCGGGCTG CAGGAATTCG GCACAGCATA TCTAGTATTT	60
	TAGGACGGAG GGA	73
30	(2) INFORMATION FOR SEQ ID NO: 1549:	, ,
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1549:	
70	GTATCCAAGC AGCTTTTAAA CAATATGGCA TAAACATTAT TAACGGCTAT GGTTTAACTG	60
	ATGGCACCTC TTG	73
45	(2) INFORMATION FOR SEQ ID NO: 1550:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 1550:	

	GTAACATGTA TAGTGAAGTG ACTACTAAGA AGNCGTATTG TGATATTGAT AGCAGCTGAT	120
_	(2) INFORMATION FOR SEQ ID NO: 1551:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 192 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1551:	
15	GGTATGTATT AATTAAAATG TGGTCATGAT TGAAACAGCA ATGTAAAAAT AGCACAACAT	60
	AATTMATAAA GGAGAGAAAC GGCATGCATG AACAAGATTT TAGAATTTTA GAGGGTCAAG	120
	ATATTACTTT GCCAGAATTA GGTAGAGAAT TAGAAATAT TACAGGACAT ACGATTGCTG	180
20	ATTCTACTGG CG	192
	(2) INFORMATION FOR SEQ ID NO: 1552:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1552:	
	CTAAGTTAGA TGCTAGTATA CAAGATTTAC AACAAAAGGT ACTGGAATCG AATTGTGAAC	60
35	TAGACAAACT AAACTC	76
	(2) INFORMATION FOR SEQ ID NO: 1553:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1553:	
	TGTGTTGGGG CCCCGTATAT TGAAAATTTG TTATAGGTGT ATTTCTTTGG TTAACTATTG	60
50	TTATATAACT TGTAGTTTTA GGATGTTGAT TTTGCTTACC TTGTCTGCTA TGTAATGTCA	120
	CATCAACATG ATTnA	135
	(2) INFORMATION FOR SEQ ID NO: 1554:	
55		

5	(A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1554:	
10	TTTGAnATCA AATTCACTTC GCAAACGTGT CCAAGCGTGA GCAAAGGGCT AGATGATTAA	60
	TAGTTGCCCC ACTAACGGGA TCGCCCCAGT TATCCAACTT ATCT	104
	(2) INFORMATION FOR SEQ ID NO: 1555:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(b) Torobodi. Tinear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1555:	
25	AATAAGAAAC AMGACACTAG CTCACCACGA CGCGCACGGC CTGCGTGTAA AAATGTTGGT	60
	GGCGCGGGTT GGAGATCGTG TTCAACCAGA GCAGAAAATA	100
	(2) INFORMATION FOR SEQ ID NO: 1556:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1556:	
40	CAATGAAATT ATTTATTATT TTAAGTGCAT TAAACCCCGA TGATGGCTGT CCGGTACCAG	_. 60
	GTGCATTTTG GTGCCCATGG TTTACC	86
	(2) INFORMATION FOR SEQ ID NO: 1557:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1557:	
55	GTCATGTTCC CATCAAAACT AATTTGTACT TACTAAAGGC TCAGCAGCGC AACAATTAGG	60

	(a) Interest for the the no. 1990.	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1558:	
-	AACTGGTTAC AGAAATACCA CGTTCTTGTT TCAACTTTCA TCCAGTCACT TGATCGCAAA	60
15 -	TTTACCAGTC TTCTTCCCTT TA	82
	(2) INFORMATION FOR SEQ ID NO: 1559:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1559:	
	CCACAGCGGC ACTATAGCCA GCCCCTAATA TATACAGTAT TTGCATCTGA CTCATTGGTT	60
30	CATAAGTATA TGCAGTGA	78
00	(2) INFORMATION FOR SEQ ID NO: 1560:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1560:	
	ACCATTTGCT AACTTTTTAG CAGCGCAATG TTCTTATTAA CTGCTTACGC CATCTATAAA	60
45	AATAAACGTT CAACAA	76
•	(2) INFORMATION FOR SEQ ID NO: 1561:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTGGAACCCA AATTTTTTTA ATTTTCCCAA AAATTGGGGG GGGACCCCCA ATTCCCTTAA	60
	GGGTTTTCCT TGGGGGCCGG GGGTTAATTC CACCCGGGGT TAAAATTTTC CCAAAAATTA	120
5	ATTTTmGAAA AGTTTTAATT TAAGGAAACC CATTMGTCCG GAATTTTTAC CCCATCCTTA	180
	TGGGGGGTCC CAAAGATTCC	200
10	(2) INFORMATION FOR SEQ ID NO: 1562:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1562:	
20	AACACAGAGA ATAACCAAGA GAAGACGTTT TCATCTGAAG AAAGTAACAG TAMGCCATTT	60
	ATGGAAGAAA ATCAAAACGA TGAGATAGTT ATAAAAGAAG ATTCATATAA TCCATTCGTA	120
	ACGAAAACAT CTGAAAGTTT AATAGCTGAT GATGAATCTT CTGGTTATAA TAATACACGT	180
25	GAAAAAGATG AAGACTACTT CAAAAAACAA CAAGAAATTT TACAAGAAAT GGATCAAACA	240
	TTTGATTCAA ATGATGGTAC AACTGTGCAA AATTATGAGA ATAAAGCGTC TGATGATTAT	300
30	TATGATGTAA ACGATATTAA AGGAACAAAA AGTAAAGACC CTAAACGAGG AATTCCATAT	360
	ATGGAATTGT TGGnCAGTCA TGGAACGTTA TTATTGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 1563:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 454 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1563:	
	TCTTCATCAT CTTCTAATTT ACCAGCTGGA ATTTCTAGCA ATGGTTTTC TACTGGTTTA	60
45	CGATACTGTT TCACTAATAC GACTTCTTTT TTAGGTGTCA CTGCACAAAC ArCAACTGCA	120
	CCATTATGAT AAACTAATTC TCTTGTTGAC GTTTCACCGT TTGGTAATGT CACTGTATGA	180
50	ATTTCTACAT CTACAATTTT GCCATTATAA ATAACTGTTC GATCAATTGT TTTTTCATTT	240
	AAATCCATTA TAATCACGTT CCTTTAAATT CATATTATAT ATTGATACAC TATGCTTGTT	300
	AGCTAAAGTG TATCGAAAGG AGAACAGACA TGCAAAAAAA TATATTAAAA AGTGGTATTT	360

	AAATTATAGG ATTGTGCTGT TGAAAATGGG TATC	454
. 5	(2) INFORMATION FOR SEQ ID NO: 1564:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1564:	
15	ACATCTCGCA TCGTCACGAC TTGCTTGAAC CACTAGCAGG TCAAACAAAG CTGTACAGGC	60
	AACATCTGC	69
	(2) INFORMATION FOR SEQ ID NO: 1565:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(a.) GROVENGE PROGREEMEN COO ID NO 1505	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1565:	
30	TCCAGAACCA TTTTAAATCC CGGGAAATAT AATTACCTCC ACTAANGTAA TATATCCAAG	60
	CCAAGACTAA TCCTCCTTAA GCCGGTTTAA GTAACCAGGT TGAGAAGGAT TTTTTGG	117
	(2) INFORMATION FOR SEQ ID NO: 1566:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1566:	
	TATTGAGATT AACAGTCTGG GAAAAATGAA CAGCAATTGT nTAATGTGAC GATGCTGATT	60
45	ACTITITAAC AGTATCATIT AATAACTCAG AGATGCGCIT TAT	103
	(2) INFORMATION FOR SEQ ID NO: 1567:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1567:	
	AATGGATGGG ACAGCAATTA GTGCATAACG ACAATATATG CTCAATTTGT CGGCAACTGG	60
. 5	TTAAGAATCG TATTGTCACA A	81
	(2) INFORMATION FOR SEQ ID NO: 1568:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1568:	
	AATGGATICA GTAGGTATTG GTGAAGCGCC AGACGCAGCT GATTTGAAAG ATGAAGGTTC	60
20	ACATACTITI AGCATACCTT	80
	(2) INFORMATION FOR SEQ ID NO: 1569:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1569:	
	TTTTTAAATA CGATTTTAAG GAGGCCATTA TAATGGCGAG TAAAAGTAGC GAATTAATGG	60
35	TTTTGGTTAG GAATTGGTCG TTTAGGCATT CAGGA	95
	(2) INFORMATION FOR SEQ ID NO: 1570:	
40 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1570:	
	CCCAATAAAA AAAGCCTGTT GTCACAATGG TCATAGACAC GTACATACTT TAAAGGTTTC	60
50	TGTAATATAA ATATTTCATA TGCCACTTTA AAGTTGGnAC GTTCGTATGT TGTACTAA	118
	(2) INFORMATION FOR SEQ ID NO: 1571:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1571:	
	GACTTGATCA ATGAAGCATT GTGTGACAAT TGGTCTGTTT GCACACCGCA CGGATTGNGC	60
10	GTCATTTATT TGTACTAATT CAAAAAACAT TGTTGTTTTC CTAG	104
	(2) INFORMATION FOR SEQ ID NO: 1572:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1572:	-
	CCGAACTGTA ATGGTCCTAA TGTTTTACTC ATACCATATT GCGTAACCAT TGAGCGGCGA	60
.25	TTGTGTTGCA CGTCGAGCAT TGAGACCGTT GTACTCGTAA nGTATATCTC TGTACACG	118
.23	(2) INFORMATION FOR SEQ ID NO: 1573:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1573:	
	AGGGATCAAA GGTCCATCCC CCATGCATTG GATAGTGGGG GATGACTTTT GATCCTATGT	60
	TCCAGTTGCT TATT	. 74
40	(2) INFORMATION FOR SEQ ID NO: 1574:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1574:	
	AACCTTTTGA GTAAATTCAC CAATACTCAT CCCCTTATCA TTTAACAAAC TTTTATTAAT	60
	GTTTTTGGTT ATATTATGAG TCTTTACTGC TTTTAGATTG TAAAAATTAT CGTCATAAAT	120
55		

	GTAATTAATG TAATAATAGA AAAGTGTATA TATCTCATAT CGCCACCTGC TATACAACTT	240
	ATTAAATAAT TAATTCCAAG ACATATTAAT TATCTAATTA TAACCTTAGT THACGTTATT	300
5	ACATAATATA AAAATATATA ATAACTTATC CnccGGCnCC T	341
	(2) INFORMATION FOR SEQ ID NO: 1575:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1575:	
	ACGTGTACCA ACTTTTGGGC ACCATTGATA ATANGTGTCA TAGGGTGACT CAGCATAACG	60
20	GGCAAGCCTA TTAATGATAG CCAGATTAAG ACATACAGTA CATATGTTC	109
	(2) INFORMATION FOR SEQ ID NO: 1576:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1576:	
	GCTAGATTGC GGGAATTAAC AATCATCAGC GATTTAATAT TTGCACTGGA GACGTCATGG	. 60
35	TAATAAAAA TTGATGAGA	79
	(2) INFORMATION FOR SEQ ID NO: 1577:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1577:	
	ATGATGGCTA TCATGAGATT GAGATGATAA TGACAACAGT TGATTTGAAA TGATCGTGTA	.60
	ACTTTCAT	69
50	(2) INFORMATION FOR SEQ ID NO: 1578:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1578:	
	AAATTGTCAC ThCAGGTCAT AACCAACCAG GTGGGACTGC ACGAGCGTTA CTAATGATCC	60
10	AACGGTCTTG CTTTGTGATG AGGCAACAAG TGCACTTGAT CCGC	104
	(2) INFORMATION FOR SEQ ID NO: 1579:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1579:	
٠	GCTCAATAGA TACAACTATT AGGACAACGG ACTATCGTTT ACAATTTATT CCAGATAAGG	60
25	ATCGCGCAGG TCGTATGCGT AACTATGCA	89
	(2) INFORMATION FOR SEQ ID NO: 1580:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1580:	
	TTGTCTCTAA TAATGGnTTT GGCTTTTTCT AAAATTTCAG ATGTGGGTGC TGGTGAAGCA	60
	CCGACTGGTT AATTTTCTTG TCGTCACGGC CACTTTTTGT TT	102
40	(2) INFORMATION FOR SEQ ID NO: 1581:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1581:	
	AAGGTGCTGT TATTAGGATA ATGNATTTAA ACCCCATGGT ATGAAGGATA TCTGGAAGTT	60
	AGATTGGATA TCCCTTAACC ATGGGGGGTT TTATTTTTGG GG	102
55		

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1582:	
	TTCAGGGGAG CTGAACATAT TGACGACTTT TGGGTCAATT CATTTTGCAT TTTACTTTTA	60
	AATGCGTTGT TGCATGTAAT TGTATTAACG ACATACATGG TGGGGCTCTA AATHAATGCT	120
15	TGACTAATTT CTTGGATGGA GACCACGATT TACCAACTCA	160
	(2) INFORMATION FOR SEQ ID NO: 1583:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1583:	
	TAAAAGCAAG TACATTAGAG GTTAGATCAC AAGCTACTCA AGACTTGAGT GAATATTATA	60
30	ATAGACCGTT CTTTGAGTAT ACAAATCAGT CAGGATATAA AGAGGAAGGA AAAGTGACGT	120
	TTACTCCTAA TTATCAACTT ATAGATGTAA CTTTAACTGG GAATGAAAAG CAAAATTTTG	180
	GTGAAGATAT TTCTAATGTA GATATATTG TTGTAAGAGA AAATTCTGAT AGATCTGGTA	240
35	ATACAGCTTC AATTGGTGGT ATTACTAAAA CAAACGGTTC AAATTATATT GATAAAGTAA	300
	AAGATGTAAA TTTAATAATT ACTAAAAACA TCGATAGTGT TACATCAA	348
40	(2) INFORMATION FOR SEQ ID NO: 1584:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1584:	
50	AGCCAGCAGT AGATAGATAT ATTAATGAAT TCTTGGAGAA AGGTAGCTCA AATTGTCCAA	60
	TTGAGATATT GAA	73
	(2) INFORMATION FOR SEQ ID NO: 1585:	

5	(A) LENGTH: 255 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1585:	
10	GTAAGGAATG GTCACGTATT CCACACTTCT ATATGAATTA TTATGTATAT CAATACGCAA	60
÷	mTGGTTACAG TGCAGCTCAA AGCTTAAGTC ATCAAATTTT AnCAGAAGGT AAGCCAGCAG	120
	TAGATHGATA TATTAATGAA TTCTTGAAAA AAGGTAGCTC AAATTATCCA ATTGAGATAT	180
15	TAAAAAATGC TGGTGTAGAT ATGACAACAC CTGAACCAAT TGAACAAGCT TGTGAAGTTT	. 240
	TTGAACAAAA ATTGA	255
	(2) INFORMATION FOR SEQ ID NO: 1586:	
20 25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1586:	
<i>30</i>	TTATTAGGTG ANTCCATTGG CAACATTGAT TGGTTTGTCA TTAGGACAAA TTTTATTATA	60
	CATTGGCGTT ATTTTTACTA TCTTATCTGG TATTGAATAC TTTTATAAAG GTAGAGATGT	120
	TTTTAAACAA AAATAAATAT TTGTTTATAC TAGATTTCAT TTTCATATGG AATCTAGTTT	180
<i>35</i>	TTTTAATCCC AATTTTAGAA ATTAGCCACG CAATTGTTTA TAATGATATA TTGTAAAACA	240
	ATATTTGTTC ATTTTTTAG GGAAAATCTG TAGTAGCATC TGATACATTG AATCTAAAAT	300
40	TGATGTGAAT TTTTAAATGA AATACATGAA AAAATGAATT AAACGATACA AGGGGGATAT	360
	AAATGTCAAT TGCCATTATT GCTGTAGGCT CAGAACTATT	400
	(2) INFORMATION FOR SEQ ID NO: 1587:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 561 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1587:	
55	CAAAGCGTCT ATTATTGTTT GATTTTGATG AAACATATTT TAAACATAAT ACAAATGAAG	60

	AAGTGATCAC TGCTGTATTG ACAGGAAGTA CATTTCAAAG TGTCATGGAT AAAATGGATC	180
_	AAGTTAATAT GACGTTTAAA CCATTACATA TCTTTTCTGA TTTGAGTTCT AAAATGTTCA	240
5	CTTGGAATAA TGGCGAATAT GTTGAATCAG AAACATATAA AAAGAAAGTC TTGAGCGAAC	300
	CATTITATI TGAAGATATI GAAGATATAT TACGTCATAT TTCTGCGCAA TATAATGTCG	360
10	AATTTATTCC ACAAAGAGCA TTTGAAGGTA ATGAAACACA TTATAATTTT TATTTTCATT	420
	CAACAGGTAA TCACAACAAT GATAGTCGTA TCCTAGAAGC ACTnnTCAGA TACGCAAATG	480
	ACCAAAACTA TACAGCGAGA TTTAGTCGAA GCAATCCATT AGCTGGTGAT CCTGAAAATG	540
15	CGTATGATAT TGACTTCACA C	561
	(2) INFORMATION FOR SEQ ID NO: 1588:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1588:	
	CCAACAGTTT TATCATTATG GCAAGTTCTG TTAAACCTGC TGAGAGTTAT TTTGCACTGA	60
30	TTGCAAAACC AGAAATTGG	79
	(2) INFORMATION FOR SEQ ID NO: 1589:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1589:	
	GCAGATATGC AGCAATTTAT AGAGGACTAG TAAACGCATA TATGACTTAC AGCTTTCAGA	60
45	CAAATAGCTT TGC	73
	(2) INFORMATION FOR SEQ ID NO: 1590:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TCATTITATG GITGATCATA GGCGTCGTCT TTTTCCTTGG GGATTTTATC TTTAAATACA	60
	CAGATTGGCG C	71
5	(2) INFORMATION FOR SEQ ID NO: 1591:	,
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
•		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1591:	
	ATACAATACA ATTCACACCA TATATGGATA AAATGCAAGA TGCAATTACT GCAGTTGCAC	60
	AGTGCAAGTA GCAATACC	78
20	(2) INFORMATION FOR SEQ ID NO: 1592:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
•		٠
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 1592:	
30	CCAATTAATT AAAAACCGGA AAACCAATTT TTTAAACCAA TTAAGTTAAA AATTTTTTAA	60
	AATTGGGCCC CAAACCTTGG AAAAAGGTTT AATTTTCCTT TCCCAATTTT CCCAAAATTT	120
35	TTAAACCCAA AAATTCCCGG TTTTGGGTTA AATTTCCCTn GGTTAAAT	168
	(2) INFORMATION FOR SEQ ID NO: 1593:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1593:	
	TGCTAGAAAG TATAGAACCT GGTTCAAACG CATGGTTTTA TGTCCCTTTT TAAACnGATG	60
	TTTATTAAAA AAATATGGAA ATTGGCCACG TCCGCCAATT TCCTTAGAAA AGAACGT	117
50	(2) INFORMATION FOR SEO ID NO: 1594:	11/
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 66 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5 ·		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1594:	
	AGACGAAGCC AAAAAGTTAT TCGCCAAATC TGAAATATTT TCAAAGACCT TAAAGGCGTA	60
10	AAATAC	66
	(2) INFORMATION FOR SEQ ID NO: 1595:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1595:	
	ATTTTATTTA GGCCAATAAC TGnCTACTTC TGAAATAAGT TGCTTTGCAT AGTCTGACGC	60
25	GGGATGTTTG GATAATATCT TCTGTGTTAT TGCATTGCAA	100
	(2) INFORMATION FOR SEQ ID NO: 1596:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1596:	
	GACCAGACGG CCGTAAACCT GGATGAAACC GTCCATTAGA TTCTGAAGTT GGTATTTTAC	60
40	CTAGAACGCA TGG	73
	(2) INFORMATION FOR SEQ ID NO: 1597:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1597:	
	CTTTATAAAA TTGTCTTTGA CTAACAGGAT TTTCAACGCT ATTCACAAAC CATGGTTTAA	60
cc	CATATT	66

· 5	(A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	4
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1598:	
	TATGGCACCC TCTTTGAThT TGTGACCGTT TTTGGTAATT CACCATTATT GTACGAACCA	60
	TGGAATTCGC TGCCTTCCTT TAGGCAATAA CATAATTATA TTTATCCCCT TCTTGTCACT	120
15 .	AGAGGTGCTG ACAACACCA	139
_	(2) INFORMATION FOR SEQ ID NO: 1599:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1599:	
	CTCCTCTGCA TGCACATCTT GTTGTAGCAA GGTTCACATG TAATTTATTA AATCGAAACT	60
30	CTATCCAACT ATGTTATAAA GTTCATTCTA AACAAATnAG T	101
	(2) INFORMATION FOR SEQ ID NO: 1600:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1600:	
	TTGTACCAAG GTTCACATGT AATTTATTAA AGCGAAACGC GTATCCAACT ATGTTATAAA	60
45	GTTCATTCGT AAACAAATAA GTATAAAAAT TCAATATTTT TATTACTAGA ATATGGTTAA	120
	ATACATTTAT TICTTATAAn AATTTGATGT TTAAGATATT TTGCCAAATT GA	172
50	(2) INFORMATION FOR SEQ ID NO: 1601:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(X1) SEQUENCE DESCRIPTION: SEQ ID NO: 1601:	
5	TTGGCACTGG CCGTCGTTTT ACAACGTCGT GCACTGGGAA AACCAAAnCA CGACGTTGTA	60
	AAACGACGGC CAGTGCCAAG CTTGCATGCC TGCAGGTCGA CTCTAAGAAG GA	112
	(2) INFORMATION FOR SEQ ID NO: 1602:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 679 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1602:	
20	TGCAATGGTT AATCATCTCA TATAACAACA CATAATTTGT ATCCTTAGGA GGAAAACAAC	60
	ATGACAAAAC ATTATTTAAA CAGTAAGTAT CAATCAGAAC AACGTTCATC AGCTATGAAA	120
	AAGATTACAA TGGGTACAGC ATCTATCATT TTAGGTTCCC TTGnATACAT AGGCGCAGAC	180
25	AGCCAACAAG TCAATGCGGC AACAGAAGCT ACGAACGCAA CTAATAATCA AAGCACACAA	240
	GTTTCTCAAG CAACATCACA ACCAATTAAT TTCCAAGTGC AAAAAGATGG GCTCTTCAGA	300
	GAAGTCACAC ATGGATGACT ATATGCAACA CCCTGGTAAA GTAATTAAAC MAAATAATAA	360
30	ATATTATTTC CAAACCGTGT TAAACAATGC ATCATTCTGG AAAGAATACA AATTTTACAA	420
	TGCAAACAAT CAAGAATTAG CAACAACTGT TGTTAACGAT AATAAAAAAG CGGATACTAG	480
35	AACAATCAAT GTTGCAGTTG AACCTGGATA TAAGAGCTTA ACTACTAAAG TACATATTGT	540
	CGTGCCACAA ATTAATTACA ATCATAGATA TACTACGCAT TTGGAATTTG AAAAAGCAAT	600
	TCCTACATTA GCTGACGCAG CAAAACCAAA CAATGTTAAA CCGGTTCAAC CAAAACCAGC	660
40	TCAACCTAAA ACACCTACT	679
	(2) INFORMATION FOR SEQ ID NO: 1603:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1603:	
	CATTTTAATT GATATAATTT AGACTTTAAC ATTTCATGCT GTTCACGGTT TTAATTTGAG	60
	ACGTCATTTG GTATAACAAC TATAC	85

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1604:	
	ACTGGTGTGA ATAGCTCCAG CAATTTCTTT AACCGCGATC ATAATCAACG TCACCTTTTA	60
	ATTTGCCA	68
15	(2) INFORMATION FOR SEQ ID NO: 1605:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1605:	
	TGGGGGGTnT TTTTGGGTTG GGTTAAAAAA AGGGAATTGG CCCAAGGGGG GAATTCCCTT	60
	AAAAAAACCC CCAACCCCCT TGGGAAATTA AAAATTGGGT TAACCGGGA	109
30	(2) INFORMATION FOR SEQ ID NO: 1606:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1606:	
	GCTTATATAC ATGTTCCATT ATAAAAGGAG TACGAACGAA AGTAACGCAT GACGTTAATT	60
	TAAAAATATT GTAATAATTA TGGATTAAAT TTAAAACCAn GGGGTATTCC AT	112
45	(2) INFORMATION FOR SEQ ID NO: 1607:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1607;	

	GTTCAAGTTG GTAACCTAAC AACACGNAAT TAGTTTAAAC GTTTGG	106
. 5	(2) INFORMATION FOR SEQ ID NO: 1608:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1608:	
15	CACACTGATA CCATAGGATT TATGATAGAT CAACAGCATG ACCAAATGTA TGACCTAAAT	60
	TIAAAAATTI ACGTACACCT TGT	83
20	(2) INFORMATION FOR SEQ ID NO: 1609:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1609: AAAAGAATAA AGTCACTGAA CAATGGTCTT TCACAATGAT GTTGCGTCAA TGCACAAGCG	60
	CATTATGTnT GTGACTTGGG CATTTTGGCT TATCAGCTGA ATATTATACG CATTTACATC	120
35	CCAATTAACG TA (2) INFORMATION FOR SEQ ID NO: 1610:	132
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1610:	
	TITAATGCAT ACGCTTCTCG CTTAGCAATT TCTTTGCACG TCTAACAAGC ATTAACGCTC	60
50	TTANTACTAT AATCACAACA AAACCAGCGA AATATAACAT GCGTATA	107
•	(2) INFORMATION FOR SEQ ID NO: 1611:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1611:	
5 '	TTCGCACCTG GTATCGTTCA AACCACCAAT GATGGCCCGT CTCGCCGTGG CAACAGCCGA	60
	AGACCGCAGG TAAACCCTGA ACGC	84
	(2) INFORMATION FOR SEQ ID NO: 1612:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1612:	
20	ACTCACATGT ACGATAACAC CCTTCGTAAA TCCATCTTTG GTTTGCCAAG TTCGTCGTTG	60
	TAAACTGTCT ATACTCGTTA AACCGCTACA TGTTTTCCTA AAnCCTGTGC CTAAATGCTT	120
	TACTGAA	127
25	(2) INFORMATION FOR SEQ ID NO: 1613:	
-	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1613:	
05	CGTTCAACTT TTTCAATTTC TAACGGCGTT TTACTATCTT TATCTGTAAC TAATTCAACT	60
	CCAAACATTA AGCCTCGTCC TCTTACATCA CCAACATTTC GATGACGCTT CAGCGCATGT	120
40	AACTGTTTC	129
	(2) INFORMATION FOR SEQ ID NO: 1614:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1614:	
	nCAACTAGTG GATTTAANAT ANACATAATT ATAAATGCAA ATGCTAATAG CTGAATACCC	60
	HONGINGIA GUIIINMINI MINCHINNII MINCHINANN MIAGINMING CIGNAINCCC	90

	GCACTAGGTG CATAATTTGT GTATTGAGCA AATAAAGCTA ATACAATGAT TGTAATTCCT	180
	TTAATGACAA ATAAAGGTAA ATTTAATCGT TTTAAAGGTT GGTAAATTAA AAATACAATT	240
5	GCAGCTATAT GCGAGCCACT AACTGCCAGC AAATGATATA TACCTATCTC TTTAACACGT	300
	TCCTTAAATT GCTCATTAAC TTCTTTTACG TCACCAGTAA TCAATGCC	348
10	(2) INFORMATION FOR SEQ ID NO: 1615:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1615:	
20	GAGCTCCACC GCGGTGTCGC CCGCTCTAGA ACTACTGGAT CCCCCGGGCT GCAGGAATTC	60
	GGCACAGCAT AT	72
25	(2) INFORMATION FOR SEQ ID NO: 1616:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1616:	
35	CATCACGTTA AATCATAACG CGTGACGTGC TTTTGCTATT TGTCTCTCGG TATCTCTATA	. 60
	TCT	63
40	(2) INFORMATION FOR SEQ ID NO: 1617:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1617:	
50	ATTGAATTCA AGGGTGGAAC TCATGAATTG GCTGGAAAAA GGTAGATTTA ACTGGATGGT	60
	TGNAGCCATA TATCGGTGCG TTTATTTATT TGGTATTTTA AAAATCAACC TCG	113
	(2) INFORMATION FOR SEQ ID NO: 1618:	

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5	(A) LENGTH: 80 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1618:	
10	GTACAATAAA GTGGTAAACA ACATGCCAAT GGAAAAAGGG ATTAAAGGTG TTTATGTCAT	60
	TCTTAAAGAT AGTAACGGTA	80
	(2) INFORMATION FOR SEQ ID NO: 1619:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1619:	
25	ATCTTATGTT TTTTTCCTAA AACTTCTGCT ACTTCATTTA TTTGATGTAT GGTAGATAAT	60
	TCTGTTTGGA TACTCATATC AACTTTTTCT ATCATATCTG AAATCTCTTT TnTGGCA	117
	(2) INFORMATION FOR SEQ ID NO: 1620:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	, , , , , , , , , , , , , , , , , , , ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1620:	
40	CGATAAACCC TTCGTAATCA ATCTTTGGTT TGCCAAGTTC GTCGTTGTAA CAGTCTATAT	60
	CGTTAAAAGC TACATGnTTT CCTAAGCCTG TGCCTAATGC TTTACTG	107
	(2) INFORMATION FOR SEQ ID NO: 1621:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1621:	
55	AATATCGTGT CTCTGTCCAG TGCTGTCCAA TCAATTTTGA TCCACCGATT GTCATACGTA	60

(2) INFORMATION FOR SEQ ID NO: 1622:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
10		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1622:		
ACCATCTGAC ATCATCAATT ATGAATTAAT GATGATATTA AAAATAAATT TGAAACATTG	60	
15 CCAATTGATA GTGCC	75	
(2) INFORMATION FOR SEQ ID NO: 1623:		
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		20
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1623:		25
ACCTGTGTA TCAGCTCTAT TAACAACCTA ACATATGTGA ATAATTTGCG ATCCTTGTTG 60		
ATAATGCTGT AATTTGAC 78		30
(2) INFORMATION FOR SEQ ID NO: 1624:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		35
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1624:		40
CAAGCTTTT GCGGCTTCTG ATGCACCATT AACTTCTGTA ATTAAACACA CAAAGTGAAA 60		
'AGGTAGGTA ATGCAAAACT GCAACGGACA ATCGA 95		45
2) INFORMATION FOR SEQ ID NO: 1625:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		50

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	ATTGCGATTA CACAGTAGTG AATGAGATAT TTGACATGAA AGCTCCTGCA GCTTCTAAAG	60
	AAGAGTTAGC AGGTTT	76
5	(2) INFORMATION FOR SEQ ID NO: 1626:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	-
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1626:	
	AAAAGCTAAA AAAGATTATC AGGTGTATCA CAAACTCAAA TTCTCATTAC CATTTATCTC	. 60
	AGTGTGAACG TCTTAATTGA GAACTAATCT NAATTGAGAT ATTAGTCATA TAAGGATGGA	120
20	CAAGCA	126
	(2) INFORMATION FOR SEQ ID NO: 1627:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1627:	
	TGATACGATA GAACATAGTT CAGCACATTG TTTGTTGAAA TTGGATATTA CCGCCATTTT	60
35	TTCACAATAT CAATAATACC TGAACGTGTT GGTTnTTCCA CATTATGATT GTACAT	116
	(2) INFORMATION FOR SEQ ID NO: 1628:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1628:	
	ATTTTGTCCT ATCTTGAACA AATCCGATTT TTCTCAGACA CTGAATCCAA AGTATTCATG	60
50	TACCATAAAC CATCTGCATG TTGATTTATG C	91
50	(2) INFORMATION FOR SEQ ID NO: 1629:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
55	•	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1629:	
	ACAGAAAGTC AAACAGTAAA AGCGGCAGAA TCAACTCAAG GTCAACACAA TTATAAATCG	60
10	TTAAAATACT ACTATAGCAA GCCAAGTATA GAGTTAAAAA ATCTTGATGG TTTGTATAGA	120
	CAGAAAGTGA CAGATAAAGG AGTATATGTT TGGAAGGATC GAAAAGATTA TTTTGTTGGC	180
	TTGCTTGGTA AAGATATTGA AAAATACCCT CAAGGTGAGC ATGATAAGCA AGATGCATTT	240
15	TTAGTCATCG AGGAGGAAAC TGTTAATGGA AGACAATATT CAATTGGTGG TTTAAGTAAG	300
	ACAAATAGTA AAGAATTTAG TAAAGAAGTC GATGTTAAAG TAACAAGAAA AATTGATGAA	360
	TCATCGGAAA AGTCTAAAGA TAGTAAATTT AAAATTACTA	400
20	(2) INFORMATION FOR SEQ ID NO: 1630:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1630:	
	GCTTTCCTTT TCGAAATCTA TAAATCTAAT CCATTGAAGT AAACTAATTA TGATAATTAT	60
	TAATTCTATA ATTGTnGTTA TCTTTAAATA ATTTGGAAAC CTTTCATAAT CTAAACCAAA	120
35	AAAGAAAGTT AGACATGAAA AAAGTATCAT AAATAATGAT GCTAAACTTA AGGCTTGTGC	180
	ACCTGGCTTT CGAAGAATGT CTATATTTTC CTTAGTAGTC ATATTTACCT ATCTCCTATA	240
40	CATTGATTTT GTAATAGCAT ATTAAGTATT TAAAGTTATA AGTACTTAGA TTCTTTTCGA	. 300
70	TTAAAAGTAT AAAAGCCTAA AATTATCTTT ATATTATTAT TTGATGACAA CTTTATGGTC	. 360
	TCTATTGTTT TTTACTTAAA CGCTAAAAAG CTAnACAAAG	400
45	(2) INFORMATION FOR SEQ ID NO: 1631: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1631:

	TCTAGAGCGA	70
	(2) INFORMATION FOR SEQ ID NO: 1632:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1632:	
15	CAACGAAGAT ATTCAAGTGT TCAGTCATTA TTTTTGACTG CTAATGAAAC TGATTCTTGT	60
	GG · · · · · · · · · · · · · · · · · ·	62
	(2) INFORMATION FOR SEQ ID NO: 1633:	,
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1633:	
30	CTAATGATTA GATTCAAACT AATAAAGACT ACAAAAACAA GTTGATAATG GTAAAGATAT	60
••	TATCCAACTT GACATCTAAA G	81
	(2) INFORMATION FOR SEQ ID NO: 1634:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1634:	
	AATTTCACCT TTGTCTAGTA ATTTATTTGT GTAGTGTAAT CATTAATTGT TTTAATATCT	60
45	AGT	63
	(2) INFORMATION FOR SEQ ID NO: 1635:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 579 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1635:	
	ACCAACTAGC TAAATGCCAG CGCGGNATCC ATCTCANAAG TGCACAGCAA GACCGTCTTT	60
5	CCAACTTTTG AACCATGCGG TTCAAAATAT TATCCGGTAT THAGCTACGG TTTCCCGAAG	120
	TTATCCCAGT CTTATAGGTA GGTTATCCCC AGTGTTACTC ACCCGTCCGC CGCTAACATC	180
	CAGAGAAGCA AGCTTCTCGT CCGTTCGCTC GACTTGCATG TATTAGGCAC GCCGCCAGCG	240
10	TTCATCCTGA GCCAGGATCA AACTCTCCAT AAAAATTATG ATGTTTGATT AGCTCATAAA	300
	TACTAAATAA TGTTTGTAAC TAATAGTTAC GTTTTTGGAA TTAACGTTGA CATATTGTCA	360
15	TTCAGTTTTC AATGTTCATT AATGTTCAAT CTCTTTTATT CTACTTCATT TATTTCTTGA	420
	AGTCAATAAC TITTTGAACG ATTACTTTAT TTATTCTATA TTGTTTTTAT AGTTATTTCA	480
	ATGGLAAGTN TTACACTTTT GaaATTCTTC TTTAAAAACA ACTGCGTCGt TTTTGaCGCT	540
20	TTATCaTATT ATCMACTTTG GGAATTTAAA GTCAATAAC	579
	(2) INFORMATION FOR SEQ ID NO: 1636:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1636:	
	TCGACATTAA GCAACGTTCT TCGCAAAAGG TAGCGAGCGA CACGAGTTAA CTTTGCACGT	60
35	TTCATTATT	69
	(2) INFORMATION FOR SEQ ID NO: 1637:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1637:	
	CTGTGACTTC GTCGCGATGA CCTTCGCCGT TGTTCTCATG GTAAGCTTTA AGTATCGTCG	60
50	ATGCAGTCnG TTCGCCATGT GCGCCAGCAG ACTGGTTGTA ATGTCGCCTC GTCCGT	116
	(2) INFORMATION FOR SEQ ID NO: 1638:	
5 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1638:	
	ACAACATTTA GGTACTTTCA CGCATATCAC TACAGCTCAA CGTGATGATT TACCAAATCA	60
10	AATTTCACAA G	71
15	(2) INFORMATION FOR SEQ ID NO: 1639: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1639:	
·	GCGTGGCTTT GTGATTAACA TTGACAAGCA CGTGCAACAA CATATTCGAC GCGATAAAGC	60
25	GACATCTAAT ATT	73
	(2) INFORMATION FOR SEQ ID NO: 1640:	
30 _.	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1640:	
	CGCGATCATT TTCATTTCTA ATTAATCTTC CAAGTCCTTG TCTAAAACGT GTAACTGCAT	60
40	CAGGTAATAC ATATTCCTTG AAAGTTGAAG TGAATTCAGA ATCCATAAGC CAATATTTTG	120
	CATTATGCTT GTTCATAAAC GGTAACTTCG CTATCATCAC ACATTTAATA CCATTTGCTT	180
	GAAAATCAAA ACCTTCAAAA AATGTTGACG TACCAAGCAG TATGGCCTTA TCAAAATTAT	240
45	TAAACTGTTG TACTATTTTA TAATTTTGGT TCTGCTGTTG TGTTAATACA ACATAATCTT	300
	CAAATTCTGG CAATTCATTT AAGCATATCT TGTACCATAT GCATCATTTT ATAACTCGTA	360
	AATAAGACTA AACATTTTGA TGACGTTATA GTCGTATATn	400
50	(2) INFORMATION FOR SEQ ID NO: 1641:	
5 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1641:	
	ATTGTTGTAC CATGTATACT AACAATTGTA ATGTCTCATT TCAGTAAACA AAAAGCGAAA	60
5	GACATT	66
	(2) INFORMATION FOR SEQ ID NO: 1642:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1642:	
	ATTTCGTCGG GAATAAATTT TGCCATTACA TAGAAATATC TAATAGATAA CGAAAAAGTA	60
20	TCGTATGTAT TTTTAATATA GTGTAAAATA TTATATGTAA AATAAAATGT AGGTTTTTAG	120
	TTAGAGGCAT TATAAGANAA TTTTGAGTAT AGGTTAGCTT TTAATTATGA ATCTTATTGA	180
25	AATTTGATTA ATAAAAATAT GATAGGGGAT TAAAATGAAA CTATTTTATA TCGTATTTCT	240
	TATTATTATA TGGCTGAATA TATTTTTAGG AAATGAAATC ATCCATACAC TGACTGTTTT	300
	AATAACAACA TTGTATATTG TTAATTCACG AMAGGGGATT AAAAATGACA GAGTTGAATA	360
30	ATATTATAAA CGCGCnTGCA ATCnTTGTTT GAGTCCGGAA	400
	(2) INFORMATION FOR SEQ ID NO: 1643:	•
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1643:	
	AACTAGAGGA GGACATCCTA ATGGAAGCAA AACCCGTTGC TAGAACAATA AGAATCGCAC	60
45	CTCGTA	66
	(2) INFORMATION FOR SEQ ID NO: 1644:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1644:	
	TATCAATTTC ATATGCGATT TGGCCTTGCA ATAATTAGGT CTCACCTTGC CATATCTTTA	60
5	CCTAAGCAAT ACTTG	75
	(2) INFORMATION FOR SEQ ID NO: 1645:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1645:	
	CATTCTCCTG CATCATAAAA ATCAACAATT GTATCATCAA AGTGTATCAA AATATTTTAA	60
20	TATCCCAATT	70
	(2) INFORMATION FOR SEQ ID NO: 1646:	- .
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1646:	٠.
	AGTGACACTT TCGTTCCACC ACATCGTAAA GAAGTACTTC AAGCACGTGA AGATGACATC	60
35	AAAGAAAAG TTG	73
	(2) INFORMATION FOR SEQ ID NO: 1647:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1647:	
	CTGTGATTGG TGTTGTGATT GTCTTGCTTC CTGGTTGTCC TTCTTGTTTC GCTCGCTC	60
50	CGCCGGGTTG T	71
30	(2) INFORMATION FOR SEQ ID NO: 1648:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 115 base pairs	-

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1648:	
	AACTATAGAA AAATTCGGAA TTATACCAGA AATGGAATAT GAAATGGAAG AGGTTAAACA	60
10	AAnCGAGCAA TATATTAGAG AGCAAGAAGA AGCTGGAACA ATAGAGGCGA TAACA	115
	(2) INFORMATION FOR SEQ ID NO: 1649:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1649:	·
	TGTTGTCATG ATCTGAAAAG TCAAAGTCAA TAGAACATTG GCTTTGGCTT TTTATTTGG	f 5 9
25	(2) INFORMATION FOR SEQ ID NO: 1650:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1650:	
35	ACCGATAATA GTACACGGCA TAATGNAACA ACTTGGCATG CACCCTTTTT ACGTTCCTTT	60
	ATCTCTGCAT GATTGTCATG TTCATCATGG TTTGGCTTGC ATTAATAGAG AGGGTTGACG	120
	CAGAA	125
40 .	(2) INFORMATION FOR SEQ ID NO: 1651:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1651:	
	TGATTAACGC GAATGCCACT TTTACTACCA ATGTTCCCAA AGCTGCTTCT GACAAACGCC	60
	ATTGTACTCT G	71
55	•	

5	(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1652:	
	TCACTACATG CACCATAAAT ACAGTATGAA CGTATTGAAA TGGGCATTAC ATGATACAGA	60
	(2) INFORMATION FOR SEQ ID NO: 1653:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1653:	
25	TTAATTGAAA CAATTGACAA ATGCAATTTG ACGCCAAACT TTGAACTTTG AATGGATTAT	60
	CACATTATGA TTGTTCATCC ATGGnCAATT AGCATGGACG TATTACATTC TGGATTATCA	120
	AGC	123
30	(2) INFORMATION FOR SEQ ID NO: 1654:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1654:	
40	CTATGACGTC GCATGCACGC GTAACTTGGG CCCCTCGAGG GATCCTCTAG AGCGGCCGCC	60
	CTTTTTTT TTTTTT	76
45	(2) INFORMATION FOR SEQ ID NO: 1655:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 145 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with appropriate programmers), SEO ID NO. 1655.	

	TTTTAAATTT TCGTGAAATC GGAAATGTAC GATTAGTTAT TAAGCGTTAG AATGTGTGAT	120
_	ATGTGAACCT GGTATTGACG GCGCT	145
5	(2) INFORMATION FOR SEQ ID NO: 1656:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1656:	
	TTTAGAATTC CAATACGCTA TTGCCAGCGA TTTAGCCACT TGTGGGTAAT GATATTGAAG	60
	GTGTTAGTCA AGT	73
20	(2) INFORMATION FOR SEQ ID NO: 1657:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	, ,
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1657: CTTCTGAAAA GTAGTAATGT AACCTATTGG ATGCGAATGA ATCCCCAAAT TTAGTGGACG	60
	TATGTGGCTT CATCTTCAGA ACCTGTATCT GGT	93
35	(2) INFORMATION FOR SEQ ID NO: 1658:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1658:	
	AAGTTAACAT GCAAGTTGAC GATGTAATGA CTCAAAAAGA GTGGAAACAA AAACACGA	58
	(2) INFORMATION FOR SEQ ID NO: 1659:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1659:	
	TTAATCCCAC AAACAAATGT ATGAAATTGA GTCAGTGATA TTAAATATGG GCTTGAAAGT	60
5	GTCTA	65
	(2) INFORMATION FOR SEQ ID NO: 1660:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1660:	
	TGCATTTTG TAAGAACGCA AAGCATTGTA AATTAGTTTT TATAAATTAG GATATTATCA	60
20	TGTGTATTGA AAACAATGAA GTGTGCTATG A	91
	(2) INFORMATION FOR SEQ ID NO: 1661:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1661:	
	ACATATCTGT CCACACAACA AGGACCATTT GTCTGAAGGG ACAGTGAGTG GGGAATATGT	60
35	(2) INFORMATION FOR SEQ ID NO: 1662:	
. 40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 169 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
70	(b) Islandi. IIacai	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1662:	
45	TGGGGTTTTA ACCAGGGGAC CTAAAACCAG CCCCCATTTT CCAAGTTTGG ACCCCAAATT	. 60
	CCCNAAATTT AAAAAAAATT TGTTTGGGGT CTAACTTGGG CCGGTGCCTT CCTGCCTAAA	120
	TTTAGCCCAT GTCTAACATA GTACTTTGGG AACGTAAAAG TTTAATTTA	169
50	(2) INFORMATION FOR SEQ ID NO: 1663:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 677 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1663:	
	TGGCACAATT GCACCAATTA AATGAATAAC TTTATCATTT TTATATACAG GTACAACAAT	60
10	CGCTTCTTTT ACGAACTCAG ACTGGCGTAA TTGTGTTTCA ATTTCTTCTA ATTCCATTCT	120
	GTAGCCATTC AATTTGATTT GGAAATCAAT ACGACCTTGA ATGAACCATT GACCATTTTC	180
	AAACTTCGCT TTATCACCAG TGTGATATGT ACGAATACCG TCATCGAAAT TAAATACTTC	240
15	AGCTGTTTTT TGGTCATTTT TTAAGTATCC TAAACTTACA CTTTGACCTT CGATAACAAG	300
	TTCACCTTCA TCTGTAGTAG ATAATCTTGC GCCTGGTCTT TCAACGCCAA CAGGTAATGT	360
20	CGGATATTGA TCTAAGATTT CTTGTGTAAT TTGAATACTT GTAACTGCTA CCGTAGCTTC	420
20	AGTTGGACCA TATGTGTTGT AAATCGTCGC ACTTGGGAAA CGGTTTACTA ACGCTTTTGC	480
	TGCTCTGTGA GGTAGAATTT CACCACAGAA GAAGAATTCG TTAAGACTAC CATATTGTTC	540
25	TTCATTAAGC GTTGGTAATA ATAAACACAT TTCCATAAAT GATGGTGTTG ATACCCAAAT	600
	GTTAATCGGT GTTGCTGTTA GCATTTCATT TAATAATTTA GGTTTATTAA TCATGTTTTT	660
	ATCTACAAGA nTnAAnG	677
30	(2) INFORMATION FOR SEQ ID NO: 1664:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1664:	
	GTTACAACAA TAGTGGTATA AAACGGGAGC AATTAGAGAT CAATATATGA TTATTAAGAG	60
	CA	62
45	(2) INFORMATION FOR SEQ ID NO: 1665:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 342 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1665:	

	GTTTACGCAA ATGATAGCTC GGTAAAACAT GAGCAACATG TTGAAGCCAA TTTGGAAATG	. 120
	TGTTTATCGG AAACCACAAT CCACCTAATA CTGCTAAACC AATTGTTACG ATATTAGCTA	180
5	AAGCACTTGT TTTTTGAATA TCATTTAACA AAGAACCATA ATATGCCAAA AGTTATTAAT	240
	AGAGACGCAC CTAACCATAA AAATATTCCT GACTCTAACC ATTGAACTGC ACTCATTGCA	. 300
	ACACCTTTAT AAAAATGTCC AACCATAAAA ATAACTAATA TC	342
10	(2) INFORMATION FOR SEQ ID NO: 1666:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1666:	
	GTCCAAGAAT TCAAAAACGT TTTCAACTTC GGCCAAAGCC CAATTTnTCT TTGTGGTTTA	60
•	ACTITITAAT TITGAACGIT TIAGGGCATA AAAAAAAAAA GG	102
25	(2) INFORMATION FOR SEQ ID NO: 1667:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1667:	
35	TTGATAGTAG CCATAATCAT ACCACTTAAA TAATATGTTT GATCATCGGC ATAATTTTTA	60
	TTTATTGTCL GTTCGCAATA TTTTGAGCAT TATCATAATT ACCACTAGTC ATATCATCTT	120
40	TG	122
	(2) INFORMATION FOR SEQ ID NO: 1668:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1668:	-
	AGAGATGAAA TTAAAATCGC AATTGAAAAT TTCAAATCAC GATGAGAGTG GGACAGA	57

5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 70 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
J	(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1669: AACTACTGCC AATATTAATA GCATTGGTAC ATCTTAGAGG CATTGAATTC CTTACTCAGA	60
	CTCATAATGC	70
	CICAIAAIGC	,,
15	(2) INFORMATION FOR SEQ ID NO: 1670:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
20	(D) TOPOLOGY: linear	
		÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1670:	
25	TTGTCTGATA TAATCCATTT CGATTGGACT CCACACGTTA CACCGATACC TTCTTTACCA	60
	GCCCGACCCG TAC	73
	(2) INFORMATION FOR SEQ ID NO: 1671:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(b) Toronog1: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1671:	
40	GAAGAATTGT ACTGTTAAAG TGACTCTAAA CTATCGCGGA AATAACAGTG AAATCACCAA	60
•	TTAGACTAGC GACACTGAAG TCATTAAAAA CAGACATTTG TAGTGGTGCn CTTATCACCG	120
	CARATACAAG AGAGTTTCTC	140
45	(2) INFORMATION FOR SEQ ID NO: 1672:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs	
	(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	··· AACAACGTTT ACTATTGGCA CAGAACGGTT GGTACTTAGT CTAATACCAT TGTCATCAA	59
	(2) INFORMATION FOR SEQ ID NO: 1673:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Toronsor. Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1673:	
15	ATCTCTTTGA CTTGAAGGAT TGGATTTAAA TCTTGGTGAT TTGGGCCGTG AAATATTTCC	60
	AGAAAATTCC TCAGACGTAT TAGTATAATT GTAACGnTAC ATTCTAATAT ACCTTTCTTC	. 120
	GATG	124
20	(2) INFORMATION FOR SEQ ID NO: 1674:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Toroboot: Tracur	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1674:	
30	CACCACCACC ACACACAC ACACAAACAC ACAACCCCCC	60
	AACACACCAA CACAACAAA AAACCCACCA CACACCAC	109
	(2) INFORMATION FOR SEQ ID NO: 1675:	109
35		
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1675:	
45	THGTCAACTG ATTTATGAAA TGGCAGAGCA TATGGCGTCA AAGGTTCTTA ATCGTTAAGC	60
	CAGACCACTG GAGGACCATT AGATGCAGCG TTGCTTTCAA G	101
•	(2) INFORMATION FOR SEQ ID NO: 1676:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55	·	

.•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1676:	
	TTTTTAAAAT TTGNAAATTT TAGACCTTAT TTCACGTGCG ATTTAATCGA TGTGTTAATA	60
5	AAACAATACT GGCATTCAAC ATGTAATCCG ATAATAAAAT AAGGTTGCAA TTATGTTATT	120
	GCATATTTTG TTTATTACTT AGAATAATAC GATGGTTAAG ATGAAATATA TGACAAAGAT	180
	AAATAATGAC ATTAAATTCA AGATGTTTAC GCCTTTTAGA TCTTTTTTAA GCATTTTAAA	240
10	TCCTGTCACT TCKACATTAC CGACTAAGAG TAATAAGACG ATAAATACCC ACCAATTSTC	300
	TTTTGGAAAA CTCATCGTCG TTAATGCTAA GACGAATAAT AACAACACAC CCATAATAAT	360
15	TCTCAAAATG CGAGTAAATA CAACTTCCAT TTTAAAAATA	400
	(2) INFORMATION FOR SEQ ID NO: 1677:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1677:	
	TCTTACTCAT GCATATGAGT GCAAGGGCCT GAGCATTCAT CAGCAAGATT AGAGCGATTT	60
	TTAC	64
30	(2) INFORMATION FOR SEQ ID NO: 1678:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1678:	
	ACAGCTGATT TATTAAATGA TACTAAGTCC AAAGGCATGC GCATTATATC AGTTGGTACA	60
	TTTCA	65
45	(2) INFORMATION FOR SEQ ID NO: 1679:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 362 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1679:	
_	AGCGCCACCA ACTGACGAAT TAGGTGGTAG TTGGACACTA TGGAAAAATT TAGCGCGACA	6
5	AAGTCCTGAA TTTGGTAATC CTGATAAGTT TTGCCAAAAT ATTCCTAnAA AAAGTTGGTT	120
	TGTTTCAGCA ACTTCTACAA CAAACAATAA AGAGATTATC GATACAATAG AAAGTATTTG	180
10	TAAACGTGAC CCACTTGGCA GGCAAAACAG TTACAGGCGG TATTATTACA ATCAATGATT	240
	CTGCATGGCA AATGAGTTTT ACAATCAATC GTGCAGCAAC AGTTTGAAAG ACCAACCTGG	300
	AAAATGGAAA TATCTACATG GGGTTTGATG CCTTATGATT CNGGNGTAAA CGGCGGTTGA	360
15	TG	. 362
	(2) INFORMATION FOR SEQ ID NO: 1680:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1680:	
	AGATACTICA GATTIAGCAT CATGAAGCAA CTTTAAAAGC AATCGCTGAC GCTGGTATTC	60
30	AGCCCGAGG	69
	(2) INFORMATION FOR SEQ ID NO: 1681:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1681:	-
	TAACCATTTC TTTTGACGTT TTATGTTGTT TTAAGAAATA AATACCAGTT AATGTA	56
45	(2) INFORMATION FOR SEQ ID NO: 1682:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1682:	

	127 INFORMATION FOR SEQ ID NO: 1665:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1683:	
	CCCCAACACA ACAAACAACA CACCCACCAC CCAACCCCAC CACACCCCAC	60
15	ACCCACCACA ACACCACACA CCAACACACA CCACACACA ACCCCACAC	109
	(2) INFORMATION FOR SEQ ID NO: 1684:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	••
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1684:	
	ATTATGTTCG CGATAATTTA AGTAAAAGAA GCACAGATAT TGAATTTGAT AGGAGTAATT	60
30	GT	62
	(2) INFORMATION FOR SEQ ID NO: 1685:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1685:	
	CATAAGGTAC TTAAATTAAG GCATATCTGC TGTCTAGCAG TCGCATAAAT CATTAGA	57
·45	(2) INFORMATION FOR SEQ ID NO: 1686:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1686:	
55		

	(2) INFORMATION FOR SEQ ID NO: 1687:	
· 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1687:	
`.	CTTTATAGTA TATTGCTTTT TGTTTTTCTT TTTCGTCATA TTTCACTTTT AAATAGATAC	. 60
15	CTGCAACACT AATTAATATG ATTAACATAA TACTAGTTAA TATTAADATT	110
	(2) INFORMATION FOR SEQ ID NO: 1688:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 214 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1688:	
	AATTACTAGT CTGCTTGTCC AAAGATTATT TATATTCTAG CTCAACATTA ATTTCTTTGA	60
30	TTTTGGTACC ATCTATCGTG TCACCCATGC GATGCGGTTG TAGTTTTTT GTAAGTTCGA	120
	AAGTATAAAA CTTATCATCT TCCATTTTAA CTACAATTTT ACCTTTTCTA TTATTAACAG	180
	CACCATATAA TTTTCTTCT TCCATCAATT TTTT	214
35	(2) INFORMATION FOR SEQ ID NO: 1689:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1689:	
	GCTAGTTGTA ACGTGCTTTT TCACCACCAG ATAAATCATA ATATCTTTTA ACATCTCTG	59
	(2) INFORMATION FOR SEQ ID NO: 1690:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1690:	
	CCAAACTTTA TAATATGAAA TGCTTGGTAA TTACAAAGAT AAAATCATAC TCACG	55
5	(2) INFORMATION FOR SEQ ID NO: 1691:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1691:	
	TAGACAGCAA TCCATTGCTA TAGGGGTGGA TATCTCATTT GCGTTTGGAG CTGTGCTTGT	60
	TATG	64
20	(2) INFORMATION FOR SEQ ID NO: 1692:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1692:	
	TGCATGGGAT TGCAGCTAAG AGAATCATAA AAATATATTA CTTTAATAAG TGTAGTA	57
	(2) INFORMATION FOR SEQ ID NO: 1693:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(5) 10102001. 111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1693:	
45	CGATGTGTAC GTCTCACCTG ATTTCGCACG GTAAGCTAGT GCATATTCAG CACCGCTACT	60
,,,	CGCCCAGCCT AGAC	74
	(2) INFORMATION FOR SEQ ID NO: 1694:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 162 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1694:	
	AACTTTTCAG ATGTTGATAG CTATAGATTT AGGCGCTATT CACCANGTCT ACATGCAATA	60
5	CGTACGTTAT AATGCACTGC AACGAATCGC GCGTTATGAG TTGGTAATTG TTGTTCAATA	120
	TTGGGTGTAT AGTTTTCAAC GTGGTTACAA GCAACTACCT AA	162
10	(2) INFORMATION FOR SEQ ID NO: 1695:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	. ·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1695:	
20	AATTATCTCT ACACCTTTTC TTTCACATAA TTGACGCAAT ATAATCCCTA TATCT	55
	(2) INFORMATION FOR SEQ ID NO: 1696:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1696:	
	ATGCAACGTT GGCATTGGGA AATGGTCCTG CCTAAATTAA CACGCAATAA AATGTG	56
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 1697:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1697:	
	ACTGTGTAGA AGATGCTATT ATTGTAAAAC ATAGTTTTAA TTTTATTTTC TGATATA	57
	(2) INFORMATION FOR SEQ ID NO: 1698:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1698:	
	AAAATTTTCC CCCGGGAACC CGGTTTTTTA AACCCCCCGT TTTAAAAAAA TTTTGGGGGG	60
5	CCCAAAATTT CCCAAAAAAA nAAAAAATTT TTTTTTTCCC GGGGAAAAA	109
	(2) INFORMATION FOR SEQ ID NO: 1699:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1699:	
	GTGTTAACGT GGATTATATC AAnGAGGCGG TCAGGTACAG TCCACACGCA CAGCGCACAG	60
20	AAGTATCACA TCCAGTAAAC AAGGCTAGTA CAGCATTGCA	100
	(2) INFORMATION FOR SEQ ID NO: 1700:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1700:	
	AAGGTTAAAT GAATTAGGTT GATCAATGCT CTATACTCAT TGCTAAGTCA ACGCACCTTT	60
35	ACCACCTTTT CCCAACTCAG TAAGGCATTC GACGTATTTC TTAGCCAAGN TTACATATCT	120
	ACTCTGCAC	129
	(2) INFORMATION FOR SEQ ID NO: 1701:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1701:	
50	CAAGAGGAAC AACTCGGTAC TGCGCATCAG CAGAGATGGC GAAATCACAC TTAGAAGACA	60
	AGG	63
	(2) INFORMATION FOR SEQ ID NO: 1702:	
<i>55</i>		• •

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1702:	
10	TATTTAATAA ATCTTCAATA CCTTGTTCAT CAGTTTGTTG ATAAATAAGA CCTCTCCATT	6
	TTAAATCTTC AATTAATACA TTCGTCATTA TTATTTCCTC CTATTTATAA TTATTTATTG	12
	AATACTTGTT AAAATACTTT AAAGKTTTTT GAACGTAAAA AAAACCCTTA CAACAAATAT	18
15	GTAAGGGCGC GATTGCACGT TACCACCAAA CTTAAACATA ATCATAAGAT AATGTTCACT	24
	CTATTAATGA TACGTTCATT AATAAACGTA GGACATGTTA GTTATAAAGG TGTATTCATA	30
	TTATTAAAAA CACTAGTTCA CAGCGACCAC TAGCTCTCTG ATGATTTCAA ATAATATTAC	360
20	TIGICCTITT ATCCTATTCT GTATGCATTT TCCCTAATTA	400
	(2) INFORMATION FOR SEQ ID NO: 1703:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		,
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1703:	
	TCAATATTGA TATCGAAACG CTTTGCAGAT TGATATAAAT TATCAGAATC AAGTAATTCA	60
· 35	TTTATTTCT TTGGTGAAAG TACTTGGAAA ATACTATACT	120
•	ATGAAGTATG GAAGTTGTTG CTTTGGGTAA GCNAAATTTC TAATACATAC TGATTAAACT	180
	GTTTGTTTAT TGnGAATTGC AACGCATC	208
40	(2) INFORMATION FOR SEQ ID NO: 1704:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1704:	
	AAGCCGATGT AATTATTTAT GCAACACCTG TTCTAATGCA CAAAGAAATA TCTTAGCGAG	60
55	CTTATAG	67

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1705:	
	CCAACTIGCA TGTTATTTTA AGCTGACTTT CCACCAACTT CTGAGTTTGT GGCC	54
	(2) INFORMATION FOR SEQ ID NO: 1706:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1706:	
25	CAACTACACG AAAGGGTAGT GCTTCAAGAT AATAACGTCC AATTATTAGG AACTGTGGCG	60
	A	61
	(2) INFORMATION FOR SEQ ID NO: 1707:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1707:	
40	ACCATTCCAA ATGAACCTAA ACCACTTGAT ACGTTGACGA CAACAGGTTG TTCA	54
	(2) INFORMATION FOR SEQ ID NO: 1708:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1708:	
	AAATTTGAAT AACTGTACAC ATTTTTTTGA TCATAGTCTA TATACTTTGT GAATTAATT	59
	(2) INFORMATION FOR SEQ ID NO: 1709:	
55		

5	(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1709:	
10	GCACAATAGC CAATTAGATG GGGCCGGTGC GGTAACATTT TGCTTCATTC CTGCATTAT	59
	(2) INFORMATION FOR SEQ ID NO: 1710:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1710:	
	TTACAATTCA ATCAAGTTCT TCATTATCAG ACGAAGAAAT CCACCGTATG GTAAA	55
25	(2) INFORMATION FOR SEQ ID NO: 1711:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1711:	
	TTTCTGCTTA TTGTCATTCG ATATCGAATT ATTAGAAAGT GCAGATTTCG CATCAG	56
	(2) INFORMATION FOR SEQ ID NO: 1712:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1712:	
50	TAAACCTTTA GGATTGCTGG CAATAGTAGT GCAGTTGGCT GGACTTGTCA TGCCC	55
	(2) INFORMATION FOR SEQ ID NO: 1713:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 207 base pairs	
55	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1713:	
5	CAAGAGGATT CGTGCAnTGA ATTCATGGAG ATATTTAGAT CTTTCACTGG AGAGAAAATA	60
	AAAAGAAGAA AAGAGTAACC TTTAGATTGC TGGATnTGTG CAGTGGCTGC TTGCGTGCCT	120
	TTAGGTGGCA TAAGGAGGCT ATACGCAGAC AACCACCGTC CCGGGGTTTT ATTGTACACT	180
10	GTGTAGGACG CAGACTTTAT GTGGTTG	207
	(2) INFORMATION FOR SEQ ID NO: 1714:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1714:	
•	TGGTTATCGA CTGCTCGTAT ATTTTGACTG TTTTGACTGT TGTTTCCGTA GCAATACTAT	60
25	CTCCTAAGCC TTTCATTGGC ATTG	84
	(2) INFORMATION FOR SEQ ID NO: 1715:	,
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1715:	
	GTTTGAATTG ACTGACTTCG TTTTACCGCG TGTTTAATAT TGTTATACAT ATAT	54
40	(2) INFORMATION FOR SEQ ID NO: 1716:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1716:	
50	GAAGCCTGTC AGTGGATCAA ATTATTGAAG ATAACTTGGG TGGCATTTTT GGAAAGTCCA	60
	AATGCTGGGA ATGGTCA	77

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5	(A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1717:	
	GGGCCCTTTT TTTCCCAAAA AAAAAAACCC CCCCAACCCC AATTTTGGnC CCCCTTCCCC	60
	TTTAAAAATT TAAAAATTGG GCCAAAAGGC CCCCCCAAAA AAAACCCCCCA ATTGGAATTG	120
15	GAAAACCATT GGAACCAATT CCATTGAACC AGGA	154
	(2) INFORMATION FOR SEQ ID NO: 1718:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1718:	
	ATTGTCTACA CTGCCACTTT ATTTTCATTA ACCATTTCAC AAATGTGTTC ATCATTCAAC	60
30	ATGAACATCA ATTGTTCAAT TACATCGACA CCTGATGCCT AAnCACGCAC CTTTTGCACA	120
	(2) INFORMATION FOR SEQ ID NO: 1719:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1719:	
	TTCATTTGTT TGTAAAAGTG GCATTTCTAT GTCTTAAAAG TGACGAAACT TCAC	54
	(2) INFORMATION FOR SEQ ID NO: 1720:	
<i>45</i> 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(wil growing promittion, SPO ID NO. 1720.	

	(2) INFORMATION FOR SEQ ID NO: 1721:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1721:	
	TTTGGATTAT AAATTGACAT GTAAGTACGA GGCAGCTGTA CCCGATATAT AATTGCTAAG	- 60
15	AGTTAGGGCT G	71
	(2) INFORMATION FOR SEQ ID NO: 1722:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	. •
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1722:	
	TTTTATCTTT ATTACTAAAA CCAACTGCAC CAAAGTTTGC AGTCATTACC ACACGTTTAA	60
3 <i>0</i>	CACCCGCATG TTCTGCAGCT CTTAAAATAC GTTGTATACC TTCAATTGCA GGCTTCGCCA	120
	TCACTTCTGC ATCGTCTGTT TTACCGAAAA ACACCGGAGA TGCTACACTC AAGACATACT	180
	TGCAATCTTT CATTGCTTCA TCCCAATGTn CATCTTGTGA TAAATCCGCT TCGACAAACA	240
35	TTAAATCGCT CTGTGGAAAT GCCCATGTCT TGCATTGTTT NAATTACTTT ATCAGCTTTA	300
	CTTAAATCAA GNATCGTCGT TTGTA	325
	(2) INFORMATION FOR SEQ ID NO: 1723:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(- ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1723:	
50	CAGTATTGCA GTCACGACAA TGTGATGACT AAATTATCCA AAGTATGAAT TCCATGCGGC	60
	ATTAATCCTA G	71
	(2) INFORMATION FOR SEQ ID NO: 1724:	

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1724:	
10	TTGCAACGAT ATTAGGCTAT CTAGTCGGCA TATTTGTAAA ACAAGATCCA ATT	53
	(2) INFORMATION FOR SEQ ID NO: 1725:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1725:	
•	ATCTATTCAT CTTCGTACAC GGACAGGAAA TGAGTCCAGT AGATGCACAT TGGGAATTAA	60
25	TCGAAGCTAG C	71
	(2) INFORMATION FOR SEQ ID NO: 1726:	
30 .	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1726:	
	CATCTTGCAG GTCTACATTA TAAAATGTGA AGTTTTCTAC GATAACAATT GGGAAACTCA	60
40	GGGGCATCTC C	71
	(2) INFORMATION FOR SEQ ID NO: 1727:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1727:	
	TTCnTTTTTA AAAATTCCCC ATTCCTTTT AAATTTCTTT CCCGCTGGAT TAAATGGATT	60
5 5	TTAAAAATTC CACCCCAACT TANAATTAAA TGGCTTGTGG AAAATTAACG GGATTGGCAT	120

	TCCAGCTTAA ATGGTTTTTT TGGAGGCTTC CACGTTAAAA ATGGCGGGTG GCTTT	235
	(2) INFORMATION FOR SEQ ID NO: 1728:	
<i>5</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1728:	
15	TAGAGTGGCT ATAAAGCTAA GTTCAATTGA CCAATTTACA ACAGGTTATT GAGGACAATA	60
	A	61
	(2) INFORMATION FOR SEQ ID NO: 1729:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) Topologi. Timeal	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1729:	
30	ATCACCAAGA AGTTCTAATG CTTGGTATAA ACGTTGAATA CGACGTTCGG TATT	54
••	(2) INFORMATION FOR SEQ ID NO: 1730:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1730:	
	CGTCCCGAAG CGTTGGAGGC GGGAACATCC AGAGTAATTG GCACAGATTA TGACCATAT	59
	(2) INFORMATION FOR SEQ ID NO: 1731:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1731:	
55		

	(2) INFORMATION FOR SEQ ID NO: 1732:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•.
10		٠
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1732:	
	TATGTGGTGT TCAATGCAGT GGTCATTATG GTGCATCTTA CCAGATTCGG CATTCTTATT	60
15·	ATAACTATAC TTGTAATAAA TGGCGACATG CAGACACGnC AATAC	105
	(2) INFORMATION FOR SEQ ID NO: 1733:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1733:	
	TTTACGTTCC ATAGCAAAGT GATACAAACG TCAGCATCAA TGTAAGGCAT AGATCATAGT	60
30	(2) INFORMATION FOR SEQ ID NO: 1734:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	:
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1734:	
40	TTCCATCATA CATTCGCGTT TTACTTTTCT TCTGGTATGA TCAAATATTC ACATAA	56
	(2) INFORMATION FOR SEQ ID NO: 1735:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1735:	
	AAATGGGGAT GAAACAGTTA GTGTACAGGT GAAAGCTTAA CAGCAGCTAC AATTGCA	57

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1736:	
	GATTTGCAAT TAAACTTAAA TGTAATTTTT CGGAATGTGT ATTTGGTTTA CTTAAAGTAA	60
	A	6
15	(2) INFORMATION FOR SEQ ID NO: 1737:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1737: AAAGAAGCTA AAGAAAAGT TGATAAAACA GCAAAAGTGA TTATTAGCTA CAGCATT	57
	(2) INFORMATION FOR SEQ ID NO: 1738:	; -
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1738:	
	CAATAATATC GCTAAAACCG CCATTTGTAC CAAATGAATT TGATAATGCT GCAG	54
40	(2) INFORMATION FOR SEQ ID NO: 1739:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
-	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1739:	
	TAGAGCCCAA CCGGCAACCC ATCCATGGAA ATTACCATA ATAATACATT GACCCCAAG	59
	(2) INFORMATION FOR SEQ ID NO: 1740:	

5	(A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1740:	
10	CCTTTTTGGm AATTTAAGGG GGTTCCCAAC CAAATTCCCC CAAATTTTTT TGGGTTAAAA	60
•	AAACCCGGCC CAAAAATTTA AGGGAATTTG GAAAAAGGTT TGGTTCCCTT TTTTTCCCAA	120
	GGCCCAAAAT TTGGAA	136
15	(2) INFORMATION FOR SEQ ID NO: 1741:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	•
	en de la companya de	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1741:	
	CATTCAACCA ACGACTGACA ACAGAACATT TAAGAGTCTA GGACATTGAT TGA	53
	(2) INFORMATION FOR SEQ ID NO: 1742:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(b) Torobodi: Tillear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1742:	
40	GCTCGTCTGA TTCAGTCACA AAATTGTCTT GTTATACTTG TCACCTATCA TC	52
	(2) INFORMATION FOR SEQ ID NO: 1743:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	· .
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1743:	
	TGTTATTTAA AGAGGCTCAA GCTTTCATAG AAAACATGTA TAGAGAGTGT CAT	53
	(2) INFORMATION FOR SEQ ID NO: 1744:	
55		

5	(A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1744:	
10	TCTGAGTTAA AGACGTCTCA CTTAAAGCTT TAGCAATTCC AACAATCAGA TATCTTCACA	60
	CGTGTTATAT GTGTCCATTA ATATATCCTG TGGC	94
	(2) INFORMATION FOR SEQ ID NO: 1745:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1745:	
25	GGAAAAAnn TTTTTAAAAA AAGGGAAAAG GGAATTGGGG TTCCCGGCCC CTTTTTAAAG	60
	CCCCCAAATT AAGGAAATTT TAAATTTTGG GGAAGGGGAT TTTCCACCGG TTAATAAACC	120
	GCCGATTTTG AGGGGGTTGA ATTAATTGGC CCAAATTTAA AAACCTGGAT GCTGGGTCCA	180
30	ATTTTTTACC GGGACCAATT GGTCCTGCAT GA	212
-	(2) INFORMATION FOR SEQ ID NO: 1746:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1746:	
	TATCTTCCGA TGAAGAACAA GATGCACAAG AAGTACGCCA ATGATTTAAG AAAGTGGT	58
45	(2) INFORMATION FOR SEQ ID NO: 1747:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1747:	

	AAAATTAAGn CCTTTTTTAA CCTTTCCCTT CCCCAATTGG GGCCT	105
5	(2) INFORMATION FOR SEQ ID NO: 1748:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1748:	
15	AGTGCCTATT ACTITGATTG ATGTCCAAGT TTCCTATCAC ACAACTTAAT TT	52
	(2) INFORMATION FOR SEQ ID NO: 1749:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(3) 10102011 111001	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1749:	
	AAAGCATCAT CCGAACTCCA ATGATTATAC TCCCTAGATA TTATTATGTG ATGCTTTGAG	60
30	CATTAATTAG AGATGGGACG ATTCCATGAA AGATA	95
	(2) INFORMATION FOR SEQ ID NO: 1750:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Topologi: Timear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1750:	
	TTGACACATC TACTCACATT AAAAGTAGAT GAAGCGTTGA GATTAACATT TCCACATTTA	60
45	CAA .	63
	(2) INFORMATION FOR SEQ ID NO: 1751:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCGATATTTG AGACACGCTG CTGTAATAAA ACATCCTATA AAGTATATAC CAAGATCTAC	60
	CAATATAAAC AGCGGCTATA TGATATAAAT GCTCAGACAC ACCCACTGCG ATCCAT	116
5	(2) INFORMATION FOR SEQ ID NO: 1752:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1752:	÷
	TATGATTAAG CTTAGTGCAG ATTTGATTTA TTNAACAACG CTTCACTACA TTAAAAATAG	60
	GGCACTCGCA CATATAGTTG TATCAATAGC CTTTATCAAT TTTTTGGGAA GGTT	114
20	(2) INFORMATION FOR SEQ ID NO: 1753:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1753: AACTTCAAAT GTGCCAAGTG TTGAATCACA TCAAAATCAT TTTTATTTAA CG	52
	(2) INFORMATION FOR SEQ ID NO: 1754:	32
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1754:	
	ACTAATCCCT TGCGTGTTTC CAATCAATTG CATTATTAGT GGCCATTTGT TTGATATAAC	60
45	TGACAAGCTT TAACC	75
	(2) INFORMATION FOR SEQ ID NO: 1755:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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55 . .

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1755:	
	GTGAACAAGG GTAGATGTAA ATAGTTGATG CATGTGTACA CATCATAACA AAA	53
5	(2) INFORMATION FOR SEQ ID NO: 1756:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1756:	
	TTATTTGGGC AGGCAAATAC CCTTAATATA TTCAAATCAT GTTAATATCA TTGCTATTGC	60
	TAAACC	66
20	(2) INFORMATION FOR SEQ ID NO: 1757:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	· · · · · · · · · · · · · · · · · · ·	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1757:	
	ATTAATCGGA GCACTTGGGT TCGCAATTTA TGCTGAAATG GATCATTCTA CATCATC	57
	(2) INFORMATION FOR SEQ ID NO: 1758:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1758:	
	CGAACAATAA CTCTAAGTAT CCAACAAATG CTGCAAGTGT ACCTACTGTG ATTGATCCAG	60
45	AAATAGCAAG ATATGCACCA ACACCGATGA CAATAATTGG TCCAATATCT GTAACTGTAT	120
	TAATTGCGGC AAAGGAATAG GCATTCCATC TTGTATGTTT CAACGCACGT GTTAGGAAAT	180
	TAGTATTCTT TTTATCAAAG TTTTTCGCTT CATTGTCTTC AATCGCAAAA CTTTTAACGA	240
50	CTGAAATACC TTGAACACGT TCATGCAAGA ATCCTTGAAC CTCAGCTAAT GCTTGAGATC	300
	TTTCAnGTGT CAATTTTCTT AATCTTCCAA AGAAAACGTA CACCGTTAAA ATGTAAAATG	360

	(2) INFORMATION FOR SEQ ID NO: 1755:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1759:	
	NATTATGTCA TGCTAGGTCA CTTGCATCAT CCATTTAGTA TAGAAGACGA CAAAATTAAA	60
15	TTATAGTGGG CTCCTTGATT GGCAGTATTC ATTTTCGGGA AGCGGGGTCC AGGCTTAAAG	120
	GGTATTAGAC GTGGTTACC	139
	(2) INFORMATION FOR SEQ ID NO: 1760:	. w
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1760:	
	TCGCCCCTCC AGGCTATTAT TTCATCTATA TCATTGTCAT CAGTTAAATT CAGCCTCGAC	60
30	ATTTCCATTT CAATAGACTG TTCATTCAAT TCTAAGTCAT TATTGTAAGT TTCTAGTTGA	120
	TTTTCATAAT GATTTAGATT ATTTTGCTCA ATTAACTTTC TTTGAGACAA TTGCATTAAC	180
35	TTATCTTCAA TCTCCTTTGA GAGTTCTTGA TGCTGATTCA CATCTTGAAC ATACTTCTTA	240
33	TAATCCACCT CAAAATTAGT GATATTANTA TATNTCGAGA GTGTTTCAAA TTCAGTGATG	300
	AGATCTCGAC ATAAT	315
40	(2) INFORMATION FOR SEQ ID NO: 1761:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1761:	
30	TAAATCCTCG AGATTCTTAA TAGGGTAGAT ATCTAACGTT TTCGCAAAGC TCTTTTTGAT	- 60

	CCATCCTCAT CATTCATCAT CTTCATCTAC CTTCGCGGCT GGAAATTCAA aGAATCTATT	240
	ACTGACAAAT CGCTTTTTCC ACCTTTTGAA AAGTCAATTT CCAACTTTTT ATAACCCACA	300
5	GAACTTCCTT TCAAATTACC ATCAATATGC ATTTTTAATA CCGGTGCTTT ATCAGTAGGA	360
	ATATTATAAC GACTTCTTAA TTGCTTAACA TTTTCATCT	399
i0	(2) INFORMATION FOR SEQ ID NO: 1762:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1762:	
20	GTATAGAAGA CGACAAAATT AAATATAGTG GCTCCTTATT GCAGTATTCA TTTTCGGAAG	60
	CGGGTCAAGC TAAAGGGTAT AGACGTGTAC AATTAATGAT GGCATTATTA ACGATGTATT	120
	TATTCCTCTT AAGCCACTTA GACAATTGGn AATTATCTCA GGCGAATATA ATGATGTTAT	180
25	TAATGAAAAA GTTCATGTGA AAAATAAAGA TAATTATnTA CATT	224
	(2) INFORMATION FOR SEQ ID NO: 1763:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1763:	
	AGCAACCAAC GCCAGATAAA GCAGAAGATA ACGCATTTCC CCCCATCACC ATAT	54
40	(2) INFORMATION FOR SEQ ID NO: 1764:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45 -	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1764:	
30	ATTCCCTTAT CGCATTCTGT AAAATGATCT TCATCAGAAA TTGCTTCGAT ACGTTTATG	59
	(2) INFORMATION FOR SEQ ID NO: 1765:	

5	(A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1765:	
10	GATTCAATTC ATCTGTATAG ACGATATATC CTGATATGAA TTGGAAATGG AATA	54
	(2) INFORMATION FOR SEQ ID NO: 1766:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1766:	
	ATCGCATAGA AGCATTAGAC TCAAACTATT TTCGGTTATG AGAATAACTC TGACATCCAT	60
	ATGGATACTT AGTTTCCAAG TTAGA	85
25	(2) INFORMATION FOR SEQ ID NO: 1767:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1767:	
	CAGTACTGCT GAATGATGCT ATTGATTTTC TCATGAGACA TGGCGATAAC ATCG	54
40	(2) INFORMATION FOR SEQ ID NO: 1768: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 116 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1768:	
50	GnCACTACTA ATCGTATCAG GATCACTAAT TAAGGCATCC AGCATCAGAT ACGAGCGCAC	60
	GTCAGACTAA TCTACTGTCA TGATAAAGCA GCTGCTAACC TTGTAAGTTC GTGAAA	116
	(2) INFORMATION FOR SEQ ID NO: 1769:	
55		

5	(A) LENGTH: 82 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	· ·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1769:	
10	GTTCTATCCA ATATGGAAAT GAGGACATTA TGCGTGAAAG CTATGGACGA TGGACGATGG	60
	TACACGCATG TTGTGTAAGC AG	82
	(2) INFORMATION FOR SEQ ID NO: 1770:	
15 20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1770:	
25	TATCTGTATT GTAGTAATCC GCTTCTCCCA TCTATATAGG GATCTTTCGT AGATATTCAC	60
	TTTATGCCTA GGATCCAAGA TGTGTAAGCA GCACTTTGCA TTATCTAATG CAAAGGGNAC	120
	ATGCGGCTGT AAGCCCTGTT CTGATAATCA TA	152
30	(2) INFORMATION FOR SEQ ID NO: 1771:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1771:	
40	TGGAGGCGAA GTAAATGAAA AGTATTACGT TTGAAGAACA TTATGTCATT G	51
	(2) INFORMATION FOR SEQ ID NO: 1772:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1772:	
	ngaaacaaat atctgatgag atatgcaatg atgactataa gtaacattaa aatgaagccc	60

	CGTACACCAA TTATATCTTT GTGGnTGTTA TATTAAATCT ATATTATGTT CATTTAACAG	180
5	CATATGTTAA AAATTGACAG TTAACACATG TAGCTATTTG ATGTGAATGT GC	232
5	(2) INFORMATION FOR SEQ ID NO: 1773:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1773:	
	TAATGTCCCC CAGAATGTAG GCAAATGCAG AACCTGGTTT TAGGGTCAAC TGTTTnTTCT	60
	CCAAGCAGAA ACAAAGTTCT TGTGTCAGTG CACTTTTGGT CCACCATT	108
20	(2) INFORMATION FOR SEQ ID NO: 1774:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1774:	
	CGCAATTGAA GGATACACTA TTTTAAGAGC TGCAAACATG CGGGTGTAAC GTGTGGTATA	60
	CTGCAACTTT GGTnATTGGT TTAGTATAAG ATAAAATCAT CACAATGAAT C	111
35	(2) INFORMATION FOR SEQ ID NO: 1775:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	1775	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1775:	60
	CAGGTTATCA GCTAATAGAT ATGTTGAAGA GGCAGTTGCA GGCCAAATGA AACTGCAGAT	73
	GTAGTTCAGT ACC (2) INFORMATION FOR SEQ ID NO: 1776:	,,,
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1776:	
	TAGACACAGT GCAAAATCTG GTACAGCTTA TGGAATTAGA CGGGTAAAGC AAATTACTGA	60
5	GTACCCA	67
	(2) INFORMATION FOR SEQ ID NO: 1777:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1777:	
	GTATGCCAGT GTCATTGCTG AAAACATCAA CCATTCCCTG CACCAAAATT TTTTGGTAGA	60
20	GTTTGATGCT GGCCATCCTC CAAGGGACTA AGGGTAATTT TGnTTAAAAA GAGCCAAAGG	120
	CCCAATG	127
	(2) INFORMATION FOR SEQ ID NO: 1778:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 236 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1778:	
35	GAACCCAAAA ATTAGCAACA GTGGCTACAA TAGTTGGGCA CTGAAAGCCA GCCAAGTGGG	60
00	ATTITTAGCC CTTGATTTGA AAGCGGGGTC CCCAGGATTA AAAAATTTAA ATTAGCCTAA	120
	TAAGCCCAAA ATTCCCATTT GGAAAAGGAA ACCTCCTTAA ATTGGGTTGG AAAAAAAGnTT	180
40	AAAAAAAAA AGGCCCAGnC CTTGGAATTT TTTGGAATTG GAAAAAGGAA TTAAAA	236
	(2) INFORMATION FOR SEQ ID NO: 1779:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1779:	

	(2) INFORMATION FOR SEQ ID NO: 1780:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1780:	
	GACGACTCGC TTCTATTTTA AAATCCGGCG TACTTGGTTA TATAAATATC ATAATGGTTA	60
15	AAATTAAAAA GCAATGTCAG TTCACACTAT TACTGACATT CTTTTAGTTA TGTGTATATT	120
	ATTCATTCAC AAGCTTTTGG TCTATAAATC GAGTGATTTG CTTTGTTTGT ATATAACCAT	180
. •	CTGCTACATA TTCATCGTTC ATTGTAATTA ATGGATAAAA TAGTTCATCn n	231
20	(2) INFORMATION FOR SEQ ID NO: 1781:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1781:	
30	GTCTCCCTGC CCCACATTTA ACATTGTAAT TTTGTGATGT GAATTTGTTG GAAACGTTAT	60
	TAATAATGTC AGAATAATTA TAGTCCAAAA CGTAACCAAT ATATATTTAC GTTTAGCCAA	120
	TRACCARART ATGTRATARA CAGRARTTAT ARRIVATAR ARTRICCART CATTRARCTT	180
35	GGGAACAGAA AAATGTGATT GCTTGATTC	209
	(2) INFORMATION FOR SEQ ID NO: 1782:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1782:	
	GTTAAACTTA GTTAGATAAA ATGCAAATCA CATTATTGTA GATAGTCTCT TTTC	54
50	(2) INFORMATION FOR SEQ ID NO: 1783:	
	(i) SEQUENCE CHARACTERISTICS:	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear			
	•	5	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1783:			
TGGAATGT CTCCTTGTCT CTCTATATAG CTATAGTCCG TCGCAAGCGG ACGTAATGTT	60		T
TTTTCATA ATGATTATAG TATGAAAGCG CTTTCTTGTA TATGTGACAT GTGCGTGTnG	120	10	C
!) INFORMATION FOR SEQ ID NO: 1784:			(
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		15	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1784:		20	
PACCATTTA CATAAAGACC GTCTAATTCT TCAGTTTCAA TGGCATTTTG GAGCAAT	57		C
) INFORMATION FOR SEQ ID NO: 1785:		25	(
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		_ 30	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1785:			
CATAACCAT TACCAAGTAT CCAAGCAGCT TTTAAACAAT ATGGCATAAA CATT	54	35	1
2) INFORMATION FOR SEQ ID NO: 1786:			1
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		40 .	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1786:		· 45	
GATGGGTGA TTTTAGCAGG TTTGGCTATG AGTACCGTAT TTGCATTAGG ACCGATTTCA	60		C
TTAACAAAA TCATAATTTT GGGC	84	50	7
2) INFORMATION FOR SEQ ID NO: 1787:		50	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs			
		55	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1787:	
	CCGGTTTACC CTTAAAATTA TTTTTTGGGG GGTTCCATTA AACCTTCCAA TTCCCAATTA	60
10	ACCCCMACCC CCCTGGGTTT TCCTTAAAAA CCAAAAGGCC CTTTTTTTTC CCAACCCAAC	120
	CTTGGGGGAA TTGG	134
	(2) INFORMATION FOR SEQ ID NO: 1788:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1788:	
	TATATCAACT AAAAAGCGCA TCTGCAACCG ACGGTTGAAA ATTTGGACAG GAGACAGATA	60
25	ATGTAATATA	70
	(2) INFORMATION FOR SEQ ID NO: 1789:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1789:	
	AATATCCAAT TATACAAGCA GGTATGGCAG GAAGTACGAC ACCGAAATTA	50
40	(2) INFORMATION FOR SEQ ID NO: 1790:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1790:	
50	TGATTTACTA GCTGAATCCG ACATGCTTGA TGATACACTA TGTGAATTCA	50
	(2) INFORMATION FOR SEQ ID NO: 1791:	

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5	(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1791:	
10	CCGGACGCTT TACTTCCAAC TTTAGGTGGT CAACACAGGT TTAAACATGG CGATGTCA	58
	(2) INFORMATION FOR SEQ ID NO: 1792:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1792:	
	CATCATCCTC TAATTTAGTC CAAACTCCTG GATGATATCC AAATGAAGTT CCAATTGA	58 -
25	(2) INFORMATION FOR SEQ ID NO: 1793:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1793:	
35	CACAAGTTTT AGAAGGAAAC CAATAACAAA TGACGAGATT AATTGCCACA AACATTAACG	60
	AC .	62
40	(2) INFORMATION FOR SEQ ID NO: 1794:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(6, 10102000 000000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1794:	
	AAGGCCCGGG GGGTTTAAAA AAAAAGGTTT AAAAAAGGTT TTGGCCCTTT AAACCCAAAG	60
50	GGAAATTTTA ACCCCAAAAA AAAAAAACCC CTTTGGGAAA GGG	103
	(2) INFORMATION FOR SEQ ID NO: 1795:	

5	(A) LENGTH: 121 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1795:	
10	TATCGATCGA TCATGTCGAA TCGATCTGTC GATCGATCGT ATCGATCGAA TCGCGTCGAA	60
	TCGAATnCGT CGAATCGATG CTATCGATCG AATGCTATCT GAGTCGAATC ACGTCGATCT	120
	G	121
15	(2) INFORMATION FOR SEQ ID NO: 1796:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1796:	
25	AATTCATGTT AAAATCCTCC TGATATTAGA TGGCCCATTT TTATTTTTTT CGTTTCCATA	60
	TA	62
30	(2) INFORMATION FOR SEQ ID NO: 1797:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>35</i>	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1797:	
40	CATACTCGAC AATTTAGATG GTGAATACTT ATCATTTAAG TCCTTTGaCA CCTCATCTAA	60
	AATTCTAGGA CITTTAACAA TITCTTTATA CGTATTTACA AGTTGAATAT TACTTTGAAC	120
	CTCTTGCGCC ATAAACTGAG GATTGTCACC CTTAGTTTGA TTCACTAAAA TTTGAGTATT	180
45	AGCTTGATAT TTAGGTGATA AGACGAAAAA TGTAACAATA GCGCTAATAA TTAAAAATAA	240
	TAGCGGTAAA ATAATTAAAA TCTTCAAGTT TTTTTGTAAT ACTTCTTTAA TTTTTGTTAA	300
50	TTCTAATGTA CTTTCCATTA TTTACCTCCC TTAAAAATTT TCATTAAAAT TGGTATTATA	360
50	TATATAGTAT TTACATATTA CATATCGTTT AAACAAT	397
	(2) INFORMATION FOR SEQ ID NO: 1798:	

5	(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1798:	
10	CGGGTAACAG CGAATGGTGT GTCACCGTAT ATAACTTTAC TATTTAATAT TTGGCCTGTT	60
	GCTTTC	66
	(2) INFORMATION FOR SEQ ID NO: 1799:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 77 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1799:	
25	GTTGCTAAGT TTGTATTACA ATTTAAATGA TTTTTAGCTT GAGTAAGTTT ATTTAAAGAT	60
	GCAGTAATTT CGCTAGG	77
	(2) INFORMATION FOR SEQ ID NO: 1800:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 172 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1800:	
40	TAATGCTATT TAATTTTCTA CTTCCTAAGC TTCCACCCAT AACGAGTAAn ACTTTTTTAT	60
	TTTCATTAAA GCCTGTTAAT TGATAACCAT TATGTGCATT ACCATTTTTT AAATCTTCTC	120
	GAATTGTTGC TCCAATAAAA TCAGCTTTCT CTTTAGGTAA GTAGTTTAGC GT	172
45	(2) INFORMATION FOR SEQ ID NO: 1801:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1801:	

	AGTAAAATTT GTCATCACGA TCAGCAAAAG CTTTTGATTC TGACGTATCT TCCATAAATG	120
5	ATCTAAAAAT TGGTAGTTCG	140
Ū	(2) INFORMATION FOR SEQ ID NO: 1802:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1802:	
	ATCCCCCGTA CAGACTTCAG CTTACGTAAA CATGCTGAAC ACTCTAGTGA AGATTTCAAA	60
20	(2) INFORMATION FOR SEQ ID NO: 1803:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(b) lopobodi: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1803:	
30	CAATTTAAAT GCATCTTTCC CATTAATTTC ATTTGTTGTC GCTTTAGCTG TGTTAATTAA	60
	(2) INFORMATION FOR SEQ ID NO: 1804:	
	(i) SEQUENCE CHARACTERISTICS:	
35	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1804:	
	ACTTGATCGA AAAGGTTTCA TACCGGTAAA CGATAAAGTT GAAACAAATG	50
45	(2) INFORMATION FOR SEQ ID NO: 1805:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>55</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1805:	

	(2) INFORMATION FOR SEQ ID NO: 1806:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1806:	
	AAGAACTGTC TATGAATATT GGATGACGCT TTGATGAGAA CATTAGTAAG CCATTTGTTC	60
15	AAGGAGTACA	70
	(2) INFORMATION FOR SEQ ID NO: 1807:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1807:	
	TAGCATTTCT AATGGAATCC AATCTTACCG AATGACAATT GGAATATAAC TGGTGATAAT	60
30	GTTGAATGGT CCTGTGA	77
	(2) INFORMATION FOR SEQ ID NO: 1808:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1808:	
	CCCGGCCCAA AACCCCTTTT TTGGGTAAAA AATTTTTTTT AAAAAGGGAA AAATTTCCCC	60
45	TTTTTTGGTT CCCAAATTTT AAATTAGAAA GGGCCCCCCC TTCCCCCCCA AATnTTTCCC	120
	A	121
50	(2) INFORMATION FOR SEQ ID NO: 1809:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1809:	
5	AAGTTTGGTG AAGGAACCAC GTGCATGATG GTGTTCAAAC AATGCGTTAC GATGTTGACG	60
3	(2) INFORMATION FOR SEQ ID NO: 1810:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1810:	
	TGGTTGAGAA AACACAGCGT TAAAGTTGAG GTATTTCAAA AGACAAGTTG GAACATTA	58
	(2) INFORMATION FOR SEQ ID NO: 1811:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1811:	55
30	CTTAAATAGC AAGTGGTTTT ATAACAACTT TGAGTTATCT CAATATAGTT ATCGC	22
	(2) INFORMATION FOR SEQ ID NO: 1812:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
70	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1812:	
	TAAGTCTTCA ATTTTTCAG TTGATACACC TAAGTGATAC AGCCATTCTT	50
45	(2) INFORMATION FOR SEQ ID NO: 1813:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1813:	

(2) INFORMATION FOR SEQ ID NO: 1814:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1002 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1814:	
	TGGTCATGCG GGAAATACTA GGACATGAAA ATTATGCTAA AGGCATCAAA GTAACTGAAA	60
15	ATAATGCCGT AGTGGATATA GATATGTACA TTATTGTAAG TTACGGTGTG AAAATATCTG	120
	AAGTTGCCAA TAATGTACAA TCAACAGTGA AATATACTTT GGAAAAATCA CTTAATGTAT	180
20	CAGTAAATTC AATCAATATA TATGTACAAG GTGTACGTGT GAATAATACA GGCAAGAAAG	240
	CTTAGGAGGA CAACTTGAAA TGATTAGCAA AATTAATGGT AAATTATTTG CCGATATGAT	300
	TATACAAGGG GCACAAAATT TATCTAACAA TGCAGATTTG GTAGATTCTT TGAATGEGEA	360
25	TCCAGTGCCA GATGGLGATA CAGGAACAAA TATGAATCTT ACTATGACTT CAGGTCGCGA	420
	AGAAGTAGAG AATAATTTGT CGAAAAATAT CGGCGAATTA GGTAAAACAT TCTCGAAAGG	480
	TTTACTAATG GGTGCAAGAG GTAACNCTGG TGTCATCTTG NCACAATTAT TCAGAGGATT	540
30	TTGTAAAAAT ATTGAAAGTG AATCTGAAAT TAATTCAAAA TTGTTAGCTG AAAGTTTnCA	600
	AGCTGGTGTT GAAACGGCAT ATAAAGCTGT TATGAAACCA GTTGAAGGTA CAATACTTAC	660
35	AGTTGCAAAA GATGCTGCGC AAGCTGCAAT AGAAAAAGCA AATAATACTG AAGATTGTAT	720
	AGAATTAATG GAGTACATTA TTGTAAAAGC CAATGAATCA CTTGAAAACA CACCAAACTT	780
	ATTAGCTGTA CTTAAAGAAG TTGGTGTTGT TGATAGTGGC GGTAAAGGTT TGTTATGCGT	840
40	TTACGAAGGA TTCTTANAAG CGCTTAAAGG TGANAAAGTT GAAGCCAAAG TTGCAAAGAT	900
	AGATAAAGAT GAATTTGTAC ATGATGAACA TGATTTCCAT GGTGTAATTA ATACTGAAGA	960
	TATTAATTTA TGGCTATnGT ACTGAGATGA TGGTTCGTTT TG	1002
45	(2) INFORMATION FOR SEQ ID NO: 1815:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1815:

	GACAACGCTA TTATTTTTAG TTTTTCAATT CTATTATGTC ATAATTATGT CACTCAAAAA	120
5	CTGTTTTCCA ACATTGATTT ATTGTTGGAA AATCTCGAAA ATCTAGTCTA TTTCTCCAAC	180
Ū	AATCGAAGA: TTATGCCCTT TTTTCTCCCT TTaAATAAGT CATAATACGA GGCATACATG	240
	CAACATTTAC AATAAAATAT GTTCCTACAT CGTATTATAC GAATGCTCAC ACTTATAGTT	300
10	GTTTAGTAAA CCCAGATGTA TTGCTAACAT ACCCATNANC NCTATATAGT T	351
	(2) INFORMATION FOR SEQ ID NO: 1816:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1816:	
	ATATCGTATC CCATGCGGGA AGGGCTTTAT TTATACTGTG CACGATGAAT GCGCACAACG	60
25	GG	62
	(2) INFORMATION FOR SEQ ID NO: 1817:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1817:	
	AAAGGGGGGA AATTTTTTT TTTTGGGTTT GGGGGGAAAA TTTTTTTT	60
40	TTTAAATTAA (2) INFORMATION FOR SEQ ID NO: 1818:	70
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1818:	
	CAAGTTCGGA ATGCGAACGC GTCTTAATCT ATATACAAGT GATGCACTCC A	51
	(2) INFORMATION FOR SEC ID NO. 1819.	

5	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1819:	
10	TCGCCATACT ATCGACAGCT GCTAAAATTG CGCTCTTCTT GTGTCGCAAT CG	52
	(2) INFORMATION FOR SEQ ID NO: 1820:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1820:	
	CAAATTGGGG AAATTACTAG AAATGAAGAT ATTTATAAAG ATGACTGGAC GTCAACTT	58
25	(2) INFORMATION FOR SEQ ID NO: 1821:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1821:	
	ACTGCTTCAG CACCTGTATT CATTGGGGAA AGCTTTATCG TTGACCGGCC AGTTTACA	58
	(2) INFORMATION FOR SEQ ID NO: 1822:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1822:	
	ACCTGTTGCT CGTGTCATAA ATAGGTGACT ATAAATCTCT GTTCAATATA CTTTTCGTTT	60
50	TTCCAATCTT AAAGGTCGAT GTTCGTGAGT AATCTTATCT CTGGnCCAAT TTTAATGTCA	120
	TGATATGTTC ATAGTATCAC CCCTTTGTTG TGTAATAATA ATCAGGTGGG TGGTTAGAAC	180
55	GGTGTGAATA	190

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1823:	
	AGCnTTAGCn TATGGTTTAG ACACAACTGn TAAAGATGCn AAGTTCTTGT	50
	(2) INFORMATION FOR SEQ ID NO: 1824:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(2) 200020000 220020	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1824:	
25	AAAAATTGGA AAAAAGGGGC CCAAAGGTTA ACCCAAATTG GAAANAAACC CAAATTTTTT	60
	GGAAATTAAC CCAAAAATTG GCCCCCAATT GGAACCCAAA AT	102
	(2) INFORMATION FOR SEQ ID NO: 1825:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1825:	
40	ACGTACCAAT GTCATAATCA GTCATTTTAC CACTCTTAAT AATCTGCTTC CGGGCAA	57
	(2) INFORMATION FOR SEQ ID NO: 1826:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1826:	
	ACCATCTTGT ACAAAGTGGA TGTCATATGC ACCATCTTGT GTTTTGAGCT GCATTTAATT	60
	G	61
<i>55</i>		

5	(A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1827:	
.:	ACCOTTTCGC CAAGCCGACC TAATTTCTCA GCAATATTTC TTTCTACGCC ACCAAT	56
	(2) INFORMATION FOR SEQ ID NO: 1828:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1828:	
25	ACTTATAGGG CGCACTTATT TTTCGCTTCC ATAGCGAAAC TAGTGTCACT TATACGTATG	60
	TG ·	62
	(2) INFORMATION FOR SEQ ID NO: 1829:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
33		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1829:	
40	GCTACACACG ATTTACCTTT CTTGTCACGT TTTGCGACCA TCATTGTGAT GATA	54
	(2) INFORMATION FOR SEQ ID NO: 1830:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1830:	
	GTAATGACCA TCGCTGATTT ATGACATTGT TAGATCTCAT GTGCCATTTA GTCTGCTGAA	60
55	TCTTGGG	67

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1831:	
	ATAACTCTTC GnCAAACTCC TCAACAAACT TCTTGTGTTC CATCTTCTGG	50
	(2) INFORMATION FOR SEQ ID NO: 1832:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1832:	
25	AAACGTMAGA ATATTTAATG GAGCCAAGAA TGGTTTACAG ACGGAGAAAT GGGATATGTT	60
	GAAGCGAGGC GTACGCGGAA AGCGTACTAG GCTAGAACAC T	101
	(2) INFORMATION FOR SEQ ID NO: 1833:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1833:	
40	TCGTCATCAT GTCTGTGTTA CCAACGTTTG ACGATTTAnT TCATGCnGAA	50
	(2) INFORMATION FOR SEQ ID NO: 1834:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1834:	
	· ATAAGTTAAT TGATTTATTG ATAAAGAGAA GCCAGATTTA AATATTATTA AACGT	55
55	(2) INFORMATION FOR SEQ ID NO: 1835:	

5	(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1835:	
10	AAACAAGAAC CCCCATATGG TTAAGCTGCG CGTTTCAACA TACGGGGGGT TTTCATAT	58
•	(2) INFORMATION FOR SEQ ID NO: 1836:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1836:	
	TACGTTTTAT AAAAACAAGA ACTAAAGTAT GCAGTGTGAA TTGTTCACTT TCnTGGCGTT	60
25	GGAATTGATT AAAACGAGAT ATGGTGTTGT GGAAGTTGTT TGTGTTTGCA TATTTTAAAC	120
	CGATT	125
	(2) INFORMATION FOR SEQ ID NO: 1837:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1837:	
	AATCTACAAT CCTGAATCAC TCGTTAAGAT TAAAAGTATC GACAATGAGT ATCTGAACAT	60
40	GAGCTCATCT GCCGTTTTTA ATGCNAAAAA CCGGCGGCGG GATATTTTTG ACCACGGC	118
	(2) INFORMATION FOR SEQ ID NO: 1838:	
45		
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1838:	
	ATTTGGGGTT TTGGGACCCT TACCCAAAAA TTGGGGTTTG GTTATTAAAA AAAAGCCATT	60

	GTCCCAGTTT TTGGGATTGC C	141
	(2) INFORMATION FOR SEQ ID NO: 1839:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1839:	
15	TCTGGGGACT AAGTATGTCT CAGGCTTTAT GCTGTTATGT TTGAAAATGA AAGG	54
	(2) INFORMATION FOR SEQ ID NO: 1840:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
0.5		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1840:	
	ATTAAAAAAC CTTTTTAAAC CGGGAACCCA AGGAAAAATT CCGGGTTTTA ATTAAAACCT	60
30	TTTGTTAATT GGTTCCAAAC CAACCTTTTG GGTTAATTTT AACCAGGAAT TTTGGAAAAC	120
	ngttttattt gga	133
	(2) INFORMATION FOR SEQ ID NO: 1841:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1841:	
	AAAGTATGGA TTGATCGTGG AGAAGTTCTT CCTACTAAGA ACACTAGTCG	50
45	(2) INFORMATION FOR SEQ ID NO: 1842:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2074

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	GCGITITCCT GGGATATGTT TGATGAATGG ATGTTGTAAC ATGTTAATAA ATGGTTGGTA	80
5	(2) INFORMATION FOR SEQ ID NO: 1843:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1843:	
15	CTGAGATGAA TATTGTGTTT CGCCATACAT ACTGGGTAAT ATCCCAACCA TTGCTGTAAA	60
	(2) INFORMATION FOR SEQ ID NO: 1844:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1844:	
	CATTACCTGT AAAAGGAAGC TAAAGACGAT GAGTATTTAT AGAAACCAAT TGCCGACCAT	60
30	TTGCAGCCAT TAGGAGGGTA GGAGGGCAAT CGCGnCCAAA GGTTATTAAC CGTCAATTAC	120
	CTTGA	125
	(2) INFORMATION FOR SEQ ID NO: 1845:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) Toronour. Tricar	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1845:	
45	ATCCACCTGG GTTTGTTCTT AATTTAACCT GnTAATTAAT TGGGTTGGGT CCGGCAAAAG	60
	TCCGGACCTG CAAATCGGAT TTTATCGTTA AATCTTGAAT TCTATTGCCC ATATTAAATC	120
	GCAAAT	126
50	(2) INFORMATION FOR SEQ ID NO: 1846:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1846:	
5	TTTTGGGAAT AAACCAATTA ATCATGGGCA AAAAATAAGC AATCCAAGTA CTTACTA	57
	(2) INFORMATION FOR SEQ ID NO: 1847:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1847:	
	TGATAAATAT TTCATCTAAA GAGAGGGAGT CATTATGACA CTACTTACTG	50
20	(2) INFORMATION FOR SEQ ID NO: 1848:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1848:	
30	ATCTAGGCAA TGAATGGACG GACTTAATAT TGATGTGCAA CAAGAAGAGG AGAAGCGAAT	. 60
	CAATA	65
	(2) INFORMATION FOR SEQ ID NO: 1849:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1849:	
45	CGTGTGAAGT CATTACTTTT AATCCCATGA TGATGGTGAT GGATGAGACG ATATCTCTCT	60
	GTCTTTAACA GTTAAGTCCA ATTCTTCCAA CGAAACTTTT CCATAGGTTG TTTTATAAGT	120
	TGGAATACTT GCACAAATCA TACCTAATTG CTTATCAATT TTCTCAAGAC TGTCATCAGT	180
50	TATAAGATCA ATTTTATTAA TAATAATCAT GTCACTTAGT TTCAACTGAT CTTCCATCAG	240
	GCGA	244

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1850:	
	TTTAAAGGTT CCCGGAAAGG TTTGAAACCA AACCTTTGCC CCGGCCCCCC GGGAAAAAAA	60
	AAAnTTGGTT TAACCCCCGG GGGGGGGGC CCTTAAAAAA ACCCAA	106
15	(2) INFORMATION FOR SEQ ID NO: 1851:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1851:	
25	TTTTTTAAGG CCCTTGGGGG GCCAATTTTC CCCCCCCC AACCTTCCAA AGGTTGGGGG	60
	GCCTTTTTT TTAAATTGGG GGGA	84
30	(2) INFORMATION FOR SEQ ID NO: 1852:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1852:	
40	TCATGATTAA AATTCAACAA TTACAACATC ACTTTGGATC ACATAAGAGT AA	52
	(2) INFORMATION FOR SEQ ID NO: 1853:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1853:	
	ATAAAACATT TCAAGATGCG CTTGTAATTG TATGTGATAC TGCCAATGCT CCACGA	56

(i) SEQUENCE CHARACTERISTICS:

55

5	(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1854:	54
	AAAAGATCAT GCGCATAATG ACATGGTGAT GATATGAGTA TGATGGTGGG TACA	34
•	(2) INFORMATION FOR SEQ ID NO: 1855:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1855:	
	ACAACAAATG GTAATGCATA AACATACAGC CAATAGCTAC AATTGCACGA CG	52
25	(2) INFORMATION FOR SEQ ID NO: 1856:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1856:	
	ACGGCTGCAC TCATCATGGT CTGTGGCGTG ATTGTTAATG TTTTAGTTGC CCGCTTC	57
	(2) INFORMATION FOR SEQ ID NO: 1857:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 192 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1857:	
	GCAGATAACT TCCTTGATCC TAACAAAGCA AGTTCTCTAT TATCTTCAGG GTTTTCACCA	60
50	GACTTCGCTA CAGTTATTAC TATGGATAGA AAAGCATCCA AACAACAAAC AAATATAGAT	120
	GTAATANACG AACGAGTTCG TGATGACTAC CAATTGCACT GGACTTCAAC AAATTGGAAA	180

	(2) INFORMATION FOR SEQ ID NO: 1858:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1858:	
	CGCTGCACTT CCTGAACGCA GTGAGACCAG AACGTGGTGT CACTTTCGGT CTATTCCGGT	60
15	TAAGTGTTGG TCTCGGA	77
,,	(2) INFORMATION FOR SEQ ID NO: 1859:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1859:	
	TTTGGCGTTC GTGATTTTCT CTAGACGTAG TAACTTTCCC ACTCTTTGCG TCC	53
	(2) INFORMATION FOR SEQ ID NO: 1860:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(D) TOPOLOGI: Timear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1860:	
40	TTTCTCACTC GCGCATTTCA GTTTGTTTTG ATTTACCCGT CTCTTCTATT TGTCTTAAT	59
	(2) INFORMATION FOR SEQ ID NO: 1861:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1861:	
	AATGAATGTA TGCACATTAA CATCATCAAT TAATCCTTTT AATAAATTGA GTTGTAATTT	60

	(2) INFORMATION FOR SEQ ID NO: 1862:	
5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1862:	
	ATTAATACTG AGCAAATGTG CATAAGACAT CATGAATTAG CACCAATTTA CAGG	54
15	(2) INFORMATION FOR SEQ ID NO: 1863:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 89 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1863:	
	TTTAACCATC ATTCTATGTC AAAGTTTTGA AATGATGGTT ATTTTTATT GCTTAAATTT	60
	ATTATTGCTA CTACTATACC AATGAAAGT	89
30	(2) INFORMATION FOR SEQ ID NO: 1864:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1864:	
40	AAAGCTGGTA CGCCTGCAGG TACCGGLCCG GAATTCCCGG GTCGACCCAC GCGTCCGGAA	60
	CCAAAATTGC ATCTGATGGT CTCAAGGGTC GTGTGTTTGA AGTGAGTCTT GCTGATTTGC	120
	AGAATGATGA AGTTGCATTT AGAAAATTCA AGCTGATTAC TGAAGATGTT CAGGGTAAAA	180
45	ACTGCCTGTA CTAACTTCCA TGGCATGGAT CTTACCCGTG ACAAAATGTG TTCCATGGTC	240
	AAAAAATGGC AGACAATGAT TGAAGCTCAC GTTGATGTCA AGACTACCGA TGGTTACTTG	300
50	CTTCGTCTGT TCTGTGTTGG TTTTACTGAA AAAACGGCAA CAATCCAGAT ACGGGANGAC	360
	CTCTTnTGCT GCAGCACCAA CAGGTDCCGC CAAATCCGGA	400
	(2) INFORMATION FOR SEQ ID NO: 1865:	

(A) LENGTH: 51 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1865:	
10	AAATGGCGTA TCTTTATGTA TCAACTAAGT AATCACCAAT TTCTTTCGGA T	51
	(2) INFORMATION FOR SEQ ID NO: 1866:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1866:	
	GTGTTGCGGA TAATCCGTCG ACATTAGCGT CTGAAGGTAT CATGAGGCAA CTGCGCAA	58
25	(2) INFORMATION FOR SEQ ID NO: 1867: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1867:	
35	ACAGCAACTG ACCCAGTTTA CTACCGTCAC TCAAATCACA CAGGTGGTAT CAAATCAATC	60
	(2) INFORMATION FOR SEQ ID NO: 1868:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1868:	
	CAATCTCTTA CCATTTATCT CAGCTGGTGA AAACGGTCCA TTACACTTAG AATAAA	56
50	(2) INFORMATION FOR SEQ ID NO: 1869:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

2081

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1869:	
5	GCTATAGACT AGAGGTACAG CAAATTCATG TGTACAGTGA TTAGAAGGCG ATGAGCAAAA	60
	GTAAT	65
	(2) INFORMATION FOR SEQ ID NO: 1870:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1870:	
20	GCTACTGGCG GGGGATAGTA ACACCCAATG TTACACGTAT ATACGTACGG CTTCTTGATA	60
	AAAAGATGAA GCCNTTACAA GTAGAAGAGCG TAAGAACGTG ATCATCTAAA TGGTAAGGGT	120
	AGACTATCCC ATGCCATTGT GGGCGGTTGC ATAGGTACCA CGGCACATAG CGG	173
25	(2) INFORMATION FOR SEQ ID NO: 1871:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1871:	
35	GCTGTGGGAT TGTCCTTTGG CATGGGGTTA GGGAGAGCGT TTCTAAGGGG CGTTTGAAAG	60
	CCATTGATCC GTAAAAGGAC CATTGTTGGA AGCNGCCTTA AGAA	104
	(2) INFORMATION FOR SEQ ID NO: 1872:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDIES: double	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1872:	
50	CCATTATCTC AAGAGGTTCT AGTAAGGGGA TGGCATTTGC TTCTTATGAA TTTGACCAGA	60
•	ATAA .	64

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1873:	
10	GACAACCTAT TGTTTCCCTA CCATACTGTT GTCCGGTTTG ACAAAACGGC GTTCCACAAT	60
	CCATACATCG TGCACCTTGG ATAGAGGCAT CTTCTTTAGT AAATCGTTGT TGATATGCTT	120
15	TATGATGCTT CAAACGGTCT ACCAGTGATA ATTCACCTAA GTACTGTTTG TCATACTTCA	180
	TAAATCCTTT AAATTCACCC ATCGTATCTC CCCCTTTCCT TAATACACAA CGGCTGGTTT	240
	ATGTTTAGCA TCGATTGTTT TGACTGTnCA TCGTAAAATG CAGCTAACAT CGCTTCATCT	300
20	TCCATTGTCA TGTGAAGATT TTGTGGCAAA nGGAATTTTT TGCATCAATG AATNGGTGAA	360
	CCTTTGGGGG TGACCTT	377
	(2) INFORMATION FOR SEQ ID NO: 1874:	
25	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 78 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(5) 10101001. 1111001	-
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1874:	
35	ATTATCTGAA TACGCAGCAG TTGCAGCACT TGATGGATCA GCAGTATTTA AAAGAGGTTA	60
	ACACATTACC CAATAGTG	78
	(2) INFORMATION FOR SEQ ID NO: 1875:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 256 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
73	(D) TOTOBOOT. ZINGOZ	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1875:	
50	CTAAAAGAAG TTAAAGAGTG TGATGGTAGA ATTATATTAT TTATTGATGA AATGCCATAT	60
	GCTTGTAGGT GSTGGTAAAA CAGATGGTGC CATGGATGCA GGCAACATGC TAAAACCAAT	120
	GTTAGCACGA GGAGAGTTAC ATTGTATTGG TGCAACAACT TTAAATGAAT ATCGAGAATA	180
	THE PROPERTY OF THE PROPERTY AND ALL THE PROPERTY AND AUCTOMAL ALL THE PROPERTY AND AUCTOMAL AUCTOMAL AND AUCTOMAL AUCTOMA	

	TGITGAAGAI ACAATT	256
	(2) INFORMATION FOR SEQ ID NO: 1876:	
5	(i) SEQUENCE CHARACTERISTICS:	•
	(A) LENGTH: 286 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	12. 22.22.23.	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1876:	
15	AGCGCGAAAT TGAGCAAGCG GAACATGCGA CTGATGAAGA AAAACAAGTT GCTTTAAATC	60
	AATTAGCGAA TAATGAAAAA CGTGCATTAC AAAACATCGA TCAAGCAATA GCANATAATG	120
	ATGTHAACGT GTTGAAACAA ATGGCATTGC TACACTAAAA GGTGTACAAC CTCATATTGT	180
20	AATTAAGCCT GAAGCACAAC AAGCAATAAA AGCAAGTGCA GAAAATCAAG TAGAATCAAT	240
	AAAAGATACA CCACATGCAA CAGTTGATGA ATTAGATGAA GCGAAT	286
		256
25	(2) INFORMATION FOR SEQ ID NO: 1877:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1877:	
JJ	ACTTCCAAAC ATGATAAAGA CAGACTACTT CACAGGTTTA AGGGAAGCAA CCACATTAGC	60
	GGGATTCACC CTAT	74
40	(2) INFORMATION FOR SEQ ID NO: 1878:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1878:	
50	TTTCATTAAG TTCAAAAAAT CTCAATAACT TTAAGGATTG GTCCGCATAT TA	52
	(2) INFORMATION FOR SEQ ID NO: 1879:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 60 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1879:	
	ATACCCCTGA GATTAATTAC TTGTCCTTTT TTTAGAACAA CATCTCCTGG CTTTGTTTCG	60
10	(2) INFORMATION FOR SEQ ID NO: 1880:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1880:	
	AATATCATTA ATAATATCAT TGATGCAAGT CCTATTGTGC ACAACTGGGG TGATTGCCTT	60
	(2) INFORMATION FOR SEQ ID NO: 1881:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(2) 10102001. 1111002	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1881:	
	ACAATGGCAC ATGGACTTAT GCCTGGGGTG TCCTGTTCGT CGCAGCATCA AAATGA	56
35	(2) INFORMATION FOR SEQ ID NO: 1882:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1882:	
	TGCAAAGCAT TGGCACATGG CCAGTCAGTT TTACAACGTC GTGACTGGGA AAACCCGAGA	60
	ngcgacgttg taaaacgacg gccagtgcca agcttgcatg cctgcagtcg actctagagg	120
50	A	121
	(2) INFORMATION FOR SEQ ID NO: 1883:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1883:	
	ACATTTAATG TATAACCAGT TTCAACATTG CCGATTTAGT GGCAGCAGTT GCAGGA	56
10	(2) INFORMATION FOR SEQ ID NO: 1884:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1884:	
	TGCATCCATT TGATTGAATT TTATGTTTTG ACCAAAGCCG GTTGCAATGT AC	52
	(2) INFORMATION FOR SEQ ID NO: 1885:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1885:	
	TGAAAAGTGG TGGAATGGTG TTAAAAGTTG GTGGGTAATT TTAGAGAAGA G	51
35	(2) INFORMATION FOR SEQ ID NO: 1886:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1886:	
	TACACGAACC ATACTCACCA GGTTTTCGTG TCATGAGGCG ATATTTTTTG TCATTTATA	60
50	TACATTTATC CAAATTCATC TTTTAAATGT TGAGT	95
*-	(2) INFORMATION FOR SEQ ID NO: 1887:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs	
55	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1887:	
	GCTACCAAAG GCGTTTTACC TATTGCTAGT CACTGCAAGT GGCTTAGCTA TGCAGATCAA	60
5	CTGGT	65
	(2) INFORMATION FOR SEQ ID NO: 1888:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1888:	
	GTGGGACCAA CTGGCCGGTG ACGGTGGTAA AGGTGCTTCA GTCGTATTGA AGTGGGATGA	60
20	(2) INFORMATION FOR SEQ ID NO: 1889:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1889: TGTTGGAGAA ACAGTTAACG AGGTTTAATG TTAAAAAAGC AACGTATCAT GGGTATA	57
	(2) INFORMATION FOR SEQ ID NO: 1890:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1890:	
	TGGGATCTGC TTGCAAATAC ACAAAACTTT CTGGATTTTA TTACAATTGC AATATAATCA	60
45	AACA	64
	(2) INFORMATION FOR SEQ ID NO: 1891:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1891:	
	GGCATCCACT CAGATAAAAT AAAGATGTCA AAAAGGCAAA GATGGTGCTA AAAAAAACAA	59
5	(2) INFORMATION FOR SEQ ID NO: 1892:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1892:	
	GGTATCTCAA CGATCCTTTA GGTTAATTCG GAAATTTCTA CACGTGAGTT AGCA	54
	(2) INFORMATION FOR SEQ ID NO: 1893:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1893:	
	TTGTCTTGGC AATGGCAGAG CAACAGAAGT TTAAAGTGCT TGCTGATCAT AT	52
30	(2) INFORMATION FOR SEQ ID NO: 1894:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1894:	
	TAAACCTATA CCCTGTAAAA AGAAAAATCG TGGATCGAAA GAACATGTAT GTGGCATTTA	60
45	TGATTGATGC TCAAGCAGA	79
	(2) INFORMATION FOR SEQ ID NO: 1895:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1895:	
•	TTATAAAGGA GAGAAATCCT TAATTATGAA TAAAGCATCA TTTGATAAAA AAGTTAAAAA	60
5	GCAATTATGG TTTTTGAACA AGAAGGAGAA ACAAGCATTA GATCAACGAT TGTCTTCTAT	120
	ATCTGATGAT GACAGCGTTA ACTTAAATAA GCCTGTTACC TTTGCTAATG CTTACTTAAG	180
	ACAAAATGTA TTTCGAAATA AAGAAACAAA AAGTTATAGT ATGTTTGTTA CATTAGTAGT	240
10	GATGATGTTT GCTTATGTTG CTTTATTAGG TTTGTnTTTA TTTGGGCTAA TTACAAGTCT	300
	ATCTGGCGTA CAATTTTCG TTAGTCCTAA GGTAGATTTA TCTACnACTG TTGTTATTTT	360
15	AACAAThATT GGAGCGA	377
	(2) INFORMATION FOR SEQ ID NO: 1896:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1896:	
	TTAGGATCCG TCTTTGCCGC AGCGTGGGTG TTCCGCGAGC GCTTCTTAGA GGTTTTGC	58
30	(2) INFORMATION FOR SEQ ID NO: 1897:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 445 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35 .	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1897:	
40	ATCGCTCAAA CCGAAATTGA AAATGCATCT ATTACTTCAT TAAGCCGTTT ACCAGACGTT	60
	ATATTAGCAT TGAAAAGTGG AAAGGTTGAA GGTGCTGTAG TTGAAAAACC TGTAGCAGAA	120
45	GCATATTTAA AACAAAATCC TAAATTAGGA ATTTCCAATG TGAAATTTAA TGAAGAAGAA	180
45	AAAGATACAG TGATAGCAGT GCCAAAAGAT TCACCAAAAT TATTGTCACA AATTAATAAA	240
	ACGATTAAGG AGGTTAAAGA TAAAGGATTA ATCGATAAAT ATATGACTAA TGCTGCAAAT	300
50	GCGATGAATG ATGACAGTGG TTTTATTTCT AAGTATGGTA GTTTTTTCTT GAAAGGAATT	360
	AAGATTACAA TATTAATTTC ACTTATCGGT GTTGCATTAG GTTCTATTTT AGGTGCATTC	420
	GTTGCGTTAA TGAAATTAAG TAAAA	445

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1898:	
	ACCTTTTCAA TGTTGCTTTG ATATAAATTC ACAAAGTTGA CTTTTnAATT CTTCAATAGA	60
	TTCTCTACTG CGATAGCTGA ATTGCCATCT TTTCTACTAC T	101
15	(2) INFORMATION FOR SEQ ID NO: 1899:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1899: TGCCCTGGAT GCCTTTAACT TGATTCATGA CCTGTGGTTT TATTTCAATT TAGATGAGCT	. 60
	ACCTTCAAGA CCTTC	75
30	(2) INFORMATION FOR SEQ ID NO: 1900: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1900:	
40	AGCAATACGG AACTGATGAA CGGAATTGTA ATACGAGAAT ATGAAGCATC AACG	54
	(2) INFORMATION FOR SEQ ID NO: 1901:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1901:	
	AGTACCTGAG TATCGCAGAC CGGCTTCAGG TCGTAGAATT TCTATACGTG GAGCTAGAAG	60
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1902: GTCTAACTAC AGCATGCCGG CTTATTGTTG CACTTTCTCA ATATTTCCAT A	51
	(2) INFORMATION FOR SEQ ID NO: 1903:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1903:	
	GGATTMAAAC GTGCATTAAC GCGTGTMTTA AATAGTTATG GTTTAAGTAG	50
25	(2) INFORMATION FOR SEQ ID NO: 1904:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1904:	
	ATCGTATTTA TTTCAGCGAG TAGCGGTAGC CTTCAATACA CAAAGATTTT ACC	53
40 45	(2) INFORMATION FOR SEQ ID NO: 1905: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1905:	
50	ATAAGACGCT AGATCTGGTC AATTTATTTC CGATTTTTTC AACACTATTC	50
	(2) INFORMATION FOR SEQ ID NO: 1906:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
. 5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1906:	
	TTCATCTGAA TCGTCGGCTT TCGCGATTAC TTCTTCGTCA GGGTTGCTAT C	51
10	(2) INFORMATION FOR SEQ ID NO: 1907:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1907:	
	CAATTGCTAA TAATCCTTTT AAGTCATTAA TGATTTGATC TTCCGTAATG TTGAA	55
	(2) INFORMATION FOR SEQ ID NO: 1908:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1908:	
	TTGCCAAACA GACATGACTT AAATTTCAAT ATCTTCTTTG ACTGCATCGA TAT	53
35	(2) INFORMATION FOR SEQ ID NO: 1909:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1909:	
	TGAATTTCTA TACAATTATG GGGAAGGGTA TTGGTGAATT GGAATGGGCT CCTAAGTTTA	60
	CAAGCCCCCA TTCGATGGCC GTTAAAGTTT TTAA	94
50	(2) INFORMATION FOR SEQ ID NO: 1910:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1910:	
5	AACATGATCG TGGGGGGATG TTATGTTTGT TCATATATTT AGGAAGTCGT TTGTAGTTAT	60
	TGTTTG .	66
	(2) INFORMATION FOR SEQ ID NO: 1911:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1911:	
	ATCTTCGCTC CACTTACTGC AATAAGGATT TGCGGCAATC CTAAACCGTT TTTCA	55
20	(2) INFORMATION FOR SEQ ID NO: 1912:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1912: AACAATCGTA ACGATACAAC GCAATCTTCG AAAAATAATG CAAGTGCAGA TTTCCGAAA	59
	(2) INFORMATION FOR SEQ ID NO: 1913:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1913:	
45	ACACCACACA CACACACACA ACACCCCCACA CAACACACAC AAACACACAA A	51
	(2) INFORMATION FOR SEQ ID NO: 1914:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1914:	
	TGTTACGACT TGGTCGACCT GGCAAGCGCT TCGCGCACGT TCTGCAGCnT CTCACTTATT	6
5	GGTATCGCGA TGCGACGTTA AGAAATTTCG GAGTTCTGGT CACCTTATGT T	11:
	(2) INFORMATION FOR SEQ ID NO: 1915:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1915:	
	TGGTCCGCTC TCAATCGCAT CTTCAGGTTT TACTTGGCAA AAGAGCGCGG TGCTCA	56
20 ·	(2) INFORMATION FOR SEQ ID NO: 1916:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	,
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1916:	
	GCCGACAGTA AAATAAAGGT ACTTGATATA ACATATAACG GAAAGCAACA GTTACTGTCA	60
	CA	62
35	(2) INFORMATION FOR SEQ ID NO: 1917:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1917:	
	ATGATATTA TTTGATTGAA GAGATGTTGC TTAAACAAGA AGACGTACAA TTGATANAAC	60
	GTAAAGATTA TATTCAGCAC CCTAAAGAAA ATGGTTACCG CAG	103
50	(2) INFORMATION FOR SEQ ID NO: 1918:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	7
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1918:	
5	CAGTGTAGCG TGTGTCATGC CGTTTTACCA CAATTGAAGA CTGAGCTCTA TCCCTGTGCC	60
	(2) INFORMATION FOR SEQ ID NO: 1919:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1919:	
	TCAAATTAAC TTCCAACAAA AACAAATGCA AGGTGAAGAA ATTGCTGAAG AAGATTTACA	60
	AAAAGCGCAA GAACAAGCGC AAGCAATTGA AAAAGATGAA AACATCTCTn CATTAAT	117
20	(2) INFORMATION FOR SEQ ID NO: 1920:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1920:	•
	TGCCTAATGA AACATTTAAA AATATTTTTA AATATATCTA TCAACACATC GTTCTATTAA	60
	TTGGGATTGT TAGTTTTCTC AAAGGATTTT TAGGATTTTT CATGGAAAAA AATGGAAGTA	120
35	ATTTATATTT TGTTTCATTC CCGTTTTCAG TAGTCGTTGG ATTCTTTATT GTCTTTTAT	180
	TTATATGGTT TAGTTTTAAA ACAATACAAC TGCAGTGTTT TAACAATTCA AATTGGATAT	240
	GGATATTCAC CTATTTAGCA ATCATTCTAC TAATTGTAGG ATTTTTCTAT GTATTCTTTA	300
40	TTCCACAATC ATTACTTGCC TTTGGACCAT ATATTCAGGT AAGCAATTGG GTATTTATTA	360
	TATTTTCATT TATAGTTATG CCTATNGGAT TACGCATTGA	400
	(2) INFORMATION FOR SEQ ID NO: 1921:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TCACAGTCAT CATTTMATTT TCGATTTTCA ATAATTGTAT TTTTAATTTA TCTTGATATT	60
	CATTAAGATT TATACAAGCT ATCTTTAACA TTGCCTTATC TTTGATATAT TTCTTGCATT	120
5	CG .	122
	(2) INFORMATION FOR SEQ ID NO: 1922:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 410 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	1 11	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1922:	
	AGAAGATACC ATACACATTT AATTAGTTAC AGCATAAATC AATTTATACC CTTAATTATT	60
20	ACATTGTTTA TATTTTAAAT TCGGGGGAGT AATTTTAAGT AATATCTTGT TGCTGCTAAT	120
:	TCTATTGTTA ATAAATTGAT ATTAGATGTA GAAATTGAGT GTGAAAGTTA ATAATAGATG	180
٠	ATTTAGCTAG TAACATAATT AATTCATATA TAGTCAAAAA GTTCTGTTAG ATACTGTTCT	240
25	TGATGAATAT TCTTTGATGT TAGGTGTTAG CTATTCTAGA TGAGTTTCTT AGATGTGGAT	300
	GCCTGTCTTG ATGAAGTTAT CTATGATGTT AATATAATAC TTGATGTTGA TTCTTAGATG	360
	TTAGTGCGAT TTCAAGATGC TGATTCTTTG TTGTTGCACT ATCTTGGTGA	410
30	(2) INFORMATION FOR SEQ ID NO: 1923:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 348 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1923:	
	TTTCTATGGT TTATCAGGTG ATTTTACGGA AAACAGTGAA GATTATGGCG TATACCGCTT	60
	TAAACGTGGA TTTAATGTAC AAATCGAAGA ATTAATAGGG GATTTCTATA AACCAATTCA	120
45	TAAAGTGAAA TATTGGTTGT TCACAACATT GGATAAATTA CGTAAAAAAT TAAAGAAATA	180
	GATGTAAATG ATGTTAGGGC TTATAGTNAT TGATACTATA GGCTCTTTTT TATATGTTTT	24
	TTAATAAAGC CTCGAATAAT GATATATTAA ATGACAAGTT TAACAAGTGA TTGCAATAAA	300
50	TATAAATnTG AATTGCACAA CCGATTTGNA AATGATTGAG TTGAGGAA	34
	(2) INFORMATION FOR SEO ID NO: 1924:	

5 ·	(A) LENGTH: 253 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1924:	
10	AGGGCAGATT TAAGCTAACT TGGAATGTTT TCGAGTTTTT GAGTTAGTTC TCTATCCATT	60
	TTTTCAGTTA CATGAGTATA TATGCGAATG GTTGnTTGTT CATCTACATG TCCTACCCTT	120
	TTCATAATTG CTTTTAAAGA AACATTCATT TCTACTAATA AAGTTATGTG TGTATGTCTA	180
15	AATGTGTGCG TGGTAACTTT CTTATTCATA TTTAAAGCTT TTGTACGTTT TCTTAACGCA	240
	CACCGGCCAT TTC	253
	(2) INFORMATION FOR SEQ ID NO: 1925:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1925:	
30	GGTATAGGTG CAAGTCCTAT CTTCCGCTCC ATGGTTTAAT GATAATGCGG GA (2) INFORMATION FOR SEQ ID NO: 1926:	52
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1926:	
	TGGTCACTGT TCCTGATGCT TACGTTAGAA TGTAAGATTC CCGATTTATC AGTTATATAC	60
	TGTTTGCTTC ACTTTGGAGA TCTG	84
45	(2) INFORMATION FOR SEQ ID NO: 1927:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CTTTCTAAAT AATTCTAGTA TAGTTTTTAT TCAAATACGC TAGGCTCAGA GCTATT	56	
	(2) INFORMATION FOR SEQ ID NO: 1928:		
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 138 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double		-
10	(D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1928:		
15	GCAAATTGTC ATTAGACGGA GTATTATTTA GAATTTTCGG TGATATCCAC CGGCACAAGA	60	
	TCGATGTTGG ACAATATCTA ATATACTGAT ACGCATTTAA ATAGAAGAAG GGAATTAGAG	120	
	TTTGGTTnTG AATGCAAA	138	
20	(2) INFORMATION FOR SEQ ID NO: 1929:		
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
			. •
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1929:		- 30
ACATCTTTAT ATG	CTTCAAC ATCAAATACA CCACATATTG GTAAACAACA AA 52	٠	- 30
(2) INFORMATIO	N FOR SEQ ID NO: 1930:		
(A) (B) (C)	NCE CHARACTERISTICS: LENGTH: 51 base pairs TYPE: nucleic acid STRANDEDNESS: double TOPOLOGY: linear		35
	DESCRIPTION OF TO VO. 1020.		40
	MENCE DESCRIPTION: SEQ ID NO: 1930:		
	ACACCGG AATAATAATA ACTAAAGCGC CGCTAATAAA T 51		
	ON FOR SEQ ID NO: 1931:		45
(A) (B) (C)	ENCE CHARACTERISTICS: LENGTH: 400 base pairs TYPE: nucleic acid STRANDEDNESS: double TOPOLOGY: linear		50

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	ACGAAAAATA AATAATCATT TCACCTTTAT AGCCAGTATT TTTAATTAAT ATATTTTCAT	60
	CTATTAGCGC TTCTAAAAAT CTATTTGACT TTTGAACATA CTCTTTAGCT ATATTATTAA	120
5	CAACAGTATA GGATTCCTCA TAATTTAGTT GATTAAATTC TGAGTCGTTC ATTAATTCAA	180
	CTAATCCTTT TATTACTTTT TGTACAACAT TAATATTTTT ATCAAAATCA AATTTATCTT	240
	CCTTAGATAA ATTAATAnnn AAAGTCTTAA GAACATTTGT AAATAGCTCT GCAACACTTA	300
10	TAGTTTGGnC AAATTCCTTA AATTTATTTA CACAGTACTC ACACATTAGT TITAAAAATA	360
	ATGGATTGTT GAATTCTGGA TTTAATATAG GTAACTTAGG	400
15	(2) INFORMATION FOR SEQ ID NO: 1932:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1932:	
25	ACTTGCGGAA nGACGCAACG TTTATGTACG TTGGAAGAAA AATTCAGGAC TTACGTTCAA	60
	AACTACCATA GCAATATGCA TTGAAAGATG ACAGTATGCG	100
	(2) INFORMATION FOR SEQ ID NO: 1933:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1933:	
40	CGCTCTGCTT TAAGCGTTGG GACTTTGTCA ACGGTAGTGG ATGGGAAGTG GTTCTGCTTT	60
40	G	61
	(2) INFORMATION FOR SEQ ID NO: 1934:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1934:	

	(2) INFORMATION FOR SEQ ID NO: 1935:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1935:	
	ATGTATTACG GTTTAATTAA GCCACATACC AACAAGATTG CATTTATGGT ATCTCA	56
15	(2) INFORMATION FOR SEQ ID NO: 1936:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
-		
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1936:	
	TCGCACCAGA AACAAGGGAT TGTTAAAATT GCGTAAATCC TTAAATTTAT TTGTAAATAT	60
	A	61
30	(2) INFORMATION FOR SEQ ID NO: 1937:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1937:	
	ATGAATAATC ATATTTCTAA TCAAAGTAAT AGCATTTATA TTGTGTTTAA A	51
	(2) INFORMATION FOR SEQ ID NO: 1938:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 56 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1938:	
	TTGCTGAAGA TAGAGGCTTC ATGAAGGTGG AGAAGTTAGC TGATTTCTGG AACAGG	56

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1939:	
	ATCTCAATGT ATTCCTCTAG TGTAAGTTCT TCATAAATAA CCGGTGATTC C	51
	(2) INFORMATION FOR SEQ ID NO: 1940:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1940:	
	CTCAGGTCGA CTCTAGAGGA TCCCCTGTTA AATAAAACTT CTTAAGCACA TACTTATTTC	60
25	ACTATGCCTT TTACGTTCCC CTTATACTTT TCTCACATCT TTCTCTTAGA CTACTCCCTT	120
	ATACGCCCCG CTCAATATCT TTAATCATTT CATCTACAGT TATTTTCGCA CTCGTTAAGA	180
30	CAATAGGAAC GCCTGGCACC TGGATGCGTA CTTGCACCTG CAAAATATAW ATCTTTATAA	240
	TCTCGCGATA CATTYTGTGG ACGATAATAA TTACTTTGCG CTAAAGTTGG GCATTAAACC	300
	GAATGCCGAA CCAAATTC	318
35	(2) INFORMATION FOR SEQ ID NO: 1941:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1941:	·
	CCGGGAAAAT TTTTGGAATT AAGTGGAAAA AAAATCCCCT TAAAATTCCC CTGGCCA	57
	(2) INFORMATION FOR SEQ ID NO: 1942:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1942:	
	TGTTCTTCTT TTGAATCTGT TTTATTCGTT TGTTCCTCTT TTTTCTGTTC ATCTTTCATA	60
5	TTTCCACATC CCCCAATAAA AATGATTAAA AGTAATACAC TCATGTACAA AGCAATTTTT	120
	TTTATATACT CCATCATTTC ACATCTCTCT GTTTTAATTT TATAAACATT TGAATATTTC	180
	ATACAACTTA TTAAAATAGT GATTATTCAA CTTTTATGTT ATCAAACAAA ACTAACTTAT	240
10		300
	TCAATTTAAT ACATGTAATT CATTTTAACT TTATTATTAA ATGTTCTAAC GTNATTTTTT	
	ATATTAGTAA TTATATTTAT TTATCCTCGC TTGGATTAAA GTAGATACTA TCTGTGAAGT	360
15	AnATATTITC TGCCTTGn	378
	(2) INFORMATION FOR SEQ ID NO: 1943:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1943:	
	AAGAAGAAGT CAAAATTCAG CTAAGTAAAA GCTCGAGTTA TAAAAAAGTC TAAATTGATT	60
<i>30</i>	CAACAGGAGT AGAAAAGGAA ATTAGTCTTG CATATTTTAG AAAATGAATA AAAACAGTTA	120
	CTATATGCAA CTCAAGAATT AAATATTATT TAAGCCACAT ACCTATTAGA GTACAAAATA	180
	TACAAGTTGT ACTTATATCT AGGTATGTGA CTTTTGATTT TAAGCGTAAA GTAAAAGTTT	240
35	TTATGTTTGT ATTAGTTCTA AATTATTTTG CACTTGGATG ACACGTATTT TTGAGTTTAA	300
	GTGGTGACTC AAGTTCAATA AAATAAATAT CAGATAGGAT AATTTGANAA TNATATGAAA	360
40	GGGTTATCTC CAAAATnATC TCCATATTAT AAGG	394
	(2) INFORMATION FOR SEQ ID NO: 1944:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1944:	
	TATTCGTGAT GACGATTGTC GGTGACATGA AGTTCTATTT GCTGGCACTG AT	52
	(2) INFORMATION FOR SEQ ID NO: 1945:	

5	(A) LENGTH: 82 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1945:	
10	CGTTTAAAAA ATGATATCAA TCTTTATTGT GGATTGCAAC ATCCGTGTGC TCCATAAAAC	60
	GTGTGGCGAG ACTTGGGAAA GG	82
	(2) INFORMATION FOR SEQ ID NO: 1946:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid	
00	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1946:	
25	GTATTATTGA TGAAGAAACA GCTCTCCAGT TGTAGATGCA TGCTACGTTC ACGTTACCAC	60
	TGTATCAATT	70
	(2) INFORMATION FOR SEQ ID NO: 1947:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1947:	
40	TATCACCAGC ACCAAGGNTA ATGACATGCT GATCTTTTGC AGTTATGGTn	50
	(2) INFORMATION FOR SEQ ID NO: 1948:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1948:	
	ATTGTATGAA TCTTTGGGGA ATGAACTTTn AACGAACGGA CATCTTGCAA TGACGCATCA	60
55	AAATGGTTTT AACACATGTA ATCGGCTCTC GGTACTATTC GTGTGATGTA CACATGG	117

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1949: TTTGATGATT TCGGGATGGA TTGGTATTGT GGTGAATGAA TTTTTTAGCT CATCATCAAA	60
	TTAG	64
15	(2) INFORMATION FOR SEQ ID NO: 1950:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1950:	
	CTCTAGTGGC CATTCATATT TGTCGCTGAA TGATGTTGGT ACATCCATTG CTGCTGT	57
	(2) INFORMATION FOR SEQ ID NO: 1951:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1951:	
40	CTGTCCTTCT GAAACTTGGG TATTTAATTA GGAATAGTTA AAAAAATCAT TCACAGAAAC	60
40	ATTTAATA	68
	(2) INFORMATION FOR SEQ ID NO: 1952:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1952:	
56	TTAAATTAAC CTTAAGGTTG GNATTTTTAA CCCCCAAATT TTTGGGGTGG TTAAAATTCC	60
55		

	(2) INFORMATION FOR SEQ ID NO: 1953:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	/ !!	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1953:	
	GACATTIACA CCTGCTTCAA TCTGGTCCAG TGCAGCATCT AATTCTTCGA	50
15	(2) INFORMATION FOR SEQ ID NO: 1954:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1954:	
20	ATTIGGCCAA CIGITCAGCA CGGTATTGGT TCAATGCAAC ACTITATCAT TGCTTCAGGG	60
	CTATATCGGT GGTATGGGnT GTATCACTTC TTAGAACGTG GTATTAA	107
30	(2) INFORMATION FOR SEQ ID NO: 1955:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1955:	
40	GAAGTGAATA TGAAGCTGCT AAAGACTCCG GAATGCTACC TCAGACAACT GATG	54
	(2) INFORMATION FOR SEQ ID NO: 1956:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1956:	
	ATGATTATTT TAGTTCCATT TGTTGAGTCG ACTGCTAAAG TTCCATTTAA ATGTTGTACA	60

	ATAAGCAGTA ATTTATGATT GTTTACAGTT TTTAATTTAC CATGAACTTT TGAAGCATTT	180
	GCATGTTTAA TAACATTATT TATCGCTTCA CGCGTAATCA TAACTAACAT AGATTGTTTA	240
5	GTAGGACTTA ATACTTGCGC TAATTCTTTA TTTTCAAATG TAAAATCAAT ATCAGCATCn	300
	nthaaaactt tacgtatact atcaatctct tcaataaatg atggtaattt tacatcatca	360
10	ATAAT	365
.•	(2) INFORMATION FOR SEQ ID NO: 1957:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1957:	
	AAATAATGTC ACAAAAGTTA AAGATACTAA TATTTTTCCA TATACTGGTG TAGTTGCTTT	60
25	TAAAAGTGCA ACTGGATTTG TAGTTGGAAA GAATACTATT TTAACAAATA AACATGTGTC	120
25	GAAAAATTAC AAAGTGGGCG ATCGTATTAC TGCACATCCA AATAGTGATA AAGGTAATGG	180
	TGGTATTTAT TCGATTAAAA AGATTATTAA TTATCCAGGT AAAGAAGATG TATCAGTCAT	240
30	TCAAGTTGAA GAGCGTGCAA TAGAACGTGG ACCAAAAGGC TTTAATTTTA ATGATAATGT	300
	AACGCCATTC AAATATGCGG CAGGGGGCTAA AGCTGGTGAG CGAATT	346
	(2) INFORMATION FOR SEQ ID NO: 1958:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1958:	
45	TTTTCCAGTT AATTTTTCCA GTTCACTAAA TACTTTATTG ACTGTACCAG ACCCAATAAT	60
	AATTTGGTAT TGTCCCCCAG TAGAAAACGT CCCTTTAACT ACATCCATAT TGTTTAGCGC	120
	CTCTTCATTT ACTAAACTTT CATCATTTAA AACTAATCGT AGTCTCGTTG CACAATGCGC	180
50	CATTGCATCT AAATTCTCTT CTCCGCCTAT CGCGTTCAAA ATTTCTTCTG CGGATTGCTT	240
	ATAATTCATA TATTTAGCCT CCTAATTAGA ACCGGTTCCA TTTATTCCAC TTTATTGTAA	300
	CCGGTTCCAA AAATATTTGC AACACTCTAT TATCATTTTA TATAAACACC TACACCATTT	360

	(2) INFORMATION FOR SEQ ID NO: 1959:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1959:	
	GATTGCATAT AATAGTAAAA ACATTACATC TTGAACAGTA CTCGTTTTGT	50
15	(2) INFORMATION FOR SEQ ID NO: 1960:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1960:	
25	AATTTGAACC AGACACTGAT ACAAGTCACA CCCAGAAACT TTTAAGGACG TAAATGT	57
•, •	(2) INFORMATION FOR SEQ ID NO: 1961:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1961:	
	AACGCTATAT TAGCGATATA CAATGATGCC ATTATCAATA nTACAnCTGn	50
40	(2) INFORMATION FOR SEQ ID NO: 1962:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1962:	
	TACAACGTCA GTTGGCAGAC ACCAGAAGAA GGATTCATAA GTATATTCAG GAACTTGTTA	60
	(2) INFORMATION FOR SEQ ID NO: 1963:	
55		

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1963:	
10	AATTTTTCCC CCTTTTTAAA TTTCCCAAAA AAAAnCCCCC AAnAAAAAAA	50
	(2) INFORMATION FOR SEQ ID NO: 1964:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1964:	
	CAACAAGTAG ATGCATCAGA GAGTAGTGTT CAAACGTTAA TAGATGTGGC ATG	53
25	(2) INFORMATION FOR SEQ ID NO: 1965:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1965:	
35	AGCAAAGGCA TAACTGCTAA TGACCATGTA AATGAGACGA GTCGATCGTG GCCA	54
	(2) INFORMATION FOR SEQ ID NO: 1966:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 252 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1966:	
	CTCAAATAAC TGGCTCAACT CAACCGGTCT ATAACACCAT AACACCGCAT GCCACTCTAG	60
50	CATACTCAAT CGCTCTGGTA CCAGCnCTCA AATAACTGGC TCACGCCAAC TGTCTATAAC	120
	ACTAACACGC ATGCACTCTA GCCTACTCAG AGCTCTGGTA CAGCACTCAA TAGCTGACTG	180
	TCACAGTCCA CACACACTCA ATACTGGCTG ACACAGTTCA CACACAGCTT ACTCGCTCTC	240

	(2) INFORMATION FOR SEQ ID NO: 1967:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1967:	
	CAGTTTAAAC TCGATGTTGT GTACTACTGT GCCAGCTGGA ATGTTTTATA ATGGTGATG	59
15	(2) INFORMATION FOR SEQ ID NO: 1968:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1968:	
	GTTACATGGC ATCACGCCAA ACCTGTCTAT AACACCATAA CACGGCATTG CC	52
	(2) INFORMATION FOR SEQ ID NO: 1969:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1969:	
	ACAATTITAA TTATATAACT CCAGGGGCTA CAGTAATACG ATTTCTCCAG ACTCCAAA	58
40	(2) INFORMATION FOR SEQ ID NO: 1970:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1970:	
	TGACGTATAA TGGATGAAAG TCTATTAAGT TTAAGAAGCT AATACTGTGA AATCTTTCT	59
	(2) INFORMATION FOR SEQ ID NO: 1971:	
55		

5	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1971:	
10	TATCATGTTA TCTTCAATCG TTCACCAACA GTCATTTGCT GCATCAGTAA CG	52
	(2) INFORMATION FOR SEQ ID NO: 1972:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1972:	
	TTGCTGGTGC CATAGACTAC ACTTGTTTGA TATCAGAAAT GGGATCTGTT CCATTACC	58
25	(2) INFORMATION FOR SEQ ID NO: 1973:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 209 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1973:	
	AGTTAAACCG AGTCCAACCC AAACCTCCAA TCCACCTAAT GGTTAAAATT CCAAACCATT	60
	ACCAGGGAGG GACCAAAAAA CGGAATGGGG CCTATTGGTA GGGTACCTAT CCCATTTAAA	120
40	AATCCATCCA AAAGCCCAMA TTATCGGACC ATTTTCGCCA AAAATAATTT AAGCGGAAAT	180
	TGAATACCTT AAAATTCTCn GGGCCCACT	209
	(2) INFORMATION FOR SEQ ID NO: 1974:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1974:	
55	ATCTGAGTAT TTATAACATA AATCACTAAT ATCGTTATTA CATAGGGATA GGGTAAAAGT	60

	(2) INFORMATION FOR SEQ ID NO: 1975:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1975:	
	TTCCTGCATC CGAGTCTGAA TCGCTGTCGA ATCACGTCGA GTCGATCGCT ATCAGGTCGA	60
15	GTCGCGTCGA ATCGnTCGCT ATCGAGTCGA TCGCGTCGAA TCGAATCACG TCGAGTCG	118
	(2) INFORMATION FOR SEQ ID NO: 1976:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1976:	
	TTGCAACNTT TGATCTAGAT ACTACCTTAG TTGGATTGTA CTACTTGATT CTACTTCACC	60
		120
30	TTTAGTTGGT TTTGTAGCAG GCGTTTTGTC TTTACCTGAC TCACTAGATG CGTCATTTTC	
	TTTTTCAACA CTTGGTAATT GTTTATTGTC ATCTTTTTGG CTGTCTTGTT TTTGTGATTC	180
	TTTTCAACA GGTGATGGTG TTGGTTTGCT AGGCGTACTG GAGTAGCTTC CTTCTTAGCT	240
35	GAGTTATCTT GTTGTTCTTT TTTGTTAGAT TTATCGGTAT TGGCTTTTGT AAATGCTTCT	300
	NTATCAACGA TTCTGACATG GTATTGTCCA TCATAATCAA TCGTTTTTAC GTGAACTTTA	360
	ACGATAGCAT CATATAGAGT TTACCTTCAA CATATGGGAA	400
40	(2) INFORMATION FOR SEQ ID NO: 1977:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1977:	
	TAGACAAAGA CAGTAACAGT AAAGTACGCT TCAGAACTGA TGGCTCACTG CGAGTATAAA	60
	AACTTGTAGT GTCC	74

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1978:	
	ACTCAAAAAC TCGGAAAACA TTCCAATTTA GCTTAAATCT GACCCTTTT TTGACCCTTA	60
	TATTTTTAC AA	72
15	(2) INFORMATION FOR SEQ ID NO: 1979:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1979:	
25	ATGTCATTGG CTTTGAACTT TATCTTCAAG CACCCAATCG TTTTAACTTT TCAAAATTTG	60
	GCACCATAA	69
30	(2) INFORMATION FOR SEQ ID NO: 1980:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1980:	
40	CAGAGAGTTG TCGCTCATTA AACGCCACnT GATGAGTTTT CGCTTACGAA GTGCCACGCG	60
	GTATGGATAA TTTTCACCTG TTGCTGAGTC TTTGATAAGC CTCGACTGT	109
	(2) INFORMATION FOR SEQ ID NO: 1981:	
.50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1981:	

	(2) INFORMATION FOR SEQ ID NO: 1982:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1982:	
	GAATCTGTTC AAGTTAGAAT TATCCCGGCA TAATGATAAA GGCGAGTAAA TGG	53
15	(2) INFORMATION FOR SEQ ID NO: 1983:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 252 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1983:	
25	GNCTTTTGAA TAAAGAAAAA TTCATCAATA GAAAAACCGT CTTTATCGTC TATTTTTTTA	60
	ACTAGTAAGT TCGGCGTTCT TAGAGACTCA AATATTGATT TTACGTTTTT CTTTGTTACA	120
20	CCACTAACAC TAAATATTCT TCCATCTAAA TCTACTAATT CTGGTACCGC AAAGACATCT	180
30	AAACCATGTG TTTTTTCTTT GTATTTATTT TCATCTTTTC CCAATAAAAA CACTTGGAAC	240
	TTTTGATTTn GT	252
35	(2) INFORMATION FOR SEQ ID NO: 1984:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1984:	
45	CGTGTTAATC AACTAATTCT TAGTTTTAAC TGTCGTAATA ATCAACTGAA CACTTTCAAT	60
	CTA	. 63
50	(2) INFORMATION FOR SEQ ID NO: 1985:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1985:	
5	TCCTAAAATG ACCGCTAATG CCTATGGATT GTTATCACCG ACCGCAGGGA CAGCACGACC	60
5	TAC	63
	(2) INFORMATION FOR SEQ ID NO: 1986:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1986:	
	GGCATATAAA AATTAGAGAA ATTATTTCAA ATGAACAGAT AGAGGCACAA GATGAATTAG	60
20	TTAAACGATT AAACGATTAT GNTTTAAATG TCACTCAAGC AACTGTTTCT CG	112
	(2) INFORMATION FOR SEQ ID NO: 1987:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1987:	
	TTTATCAATT TGTAACGAAC ATGAATTACA TGTTTCAGGA AAATATATTT CATCCCATTT	60
35	TTAAAAAGTA TAAGATTTTA TGAAAAATTA AACCAATTNA GTATAA	106
	(2) INFORMATION FOR SEQ ID NO: 1988:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1988:	
	AATGGCGTAG TTACAGCATT TATGATTGTG TTAATCTTTT CTTCTGATAA ACATAATCTG	60
	TTTGACCAAA AGTATTTAAG TGTTCAATTA ATTAGTTTTA TTATTTACGT CGTATGGCAA	120
50	GTTTTATTGA TAATGTTTTA TTATCATTCA AAACCAAAAA ATAATTCATT TTCAAAATTT	180
	GITINIER IMMEDITIES INTOLLISE BUSCHMARK BIGGIT INCOMMENT	

	TGGTTAGGTG GACATCAGAT TCACTTCCAT GAAAGTAAAT TAATTGAATT TGTTGGTTTC	300
	TTAGGAATTT CTTATGTTAC ATTCAAAAGT GTGCAGTTAA TTATGGAAAT TCGTGATGGT	360
5	TCTATCAAAG AAATTAAAGT ATGGAAATTA ATTCAATTTA	400
	(2) INFORMATION FOR SEQ ID NO: 1989:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1989:	
	TTCAGCTTAC AATAATGAGC AGGTTGGGGT GGGCTCCAAC GCAGAGAATT TCGATAAGAA	60
20	ATTCCACAAA TAATACAAGT TGGCCCACTC CCATTCTGTA ATAAATATAG GAGGTCATTG	120
	TTATGCAAAT AGAACTTACT GATGCAGCAG TAACTTGGTT TAAAAATGAA CTTGAGTTGC	180
	CTGAAAATAA TAAAGTGCTC GTGTTTTTTG TAAGATATGG TGGCGAATTC CAACTCAAGC	240
25	AAGGATTTAG TCCTGCTTTT ACAGTTGAAC CAAAGGAAGA TGTTGATATT GGCTATGAAC	300
	AACAATATGA CGATTTAAAT GTTGTCGTAG CGGAAAAAGA TTTGTGGTAC TTTGAAGATG	360
	ACCACATTAT TGTAAATGTA GTTGTCACGA AGATGAATTT	400
30	(2) INFORMATION FOR SEQ ID NO: 1990:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1990:	
	CAATTTATTA TGTAACTAAT TATAGCATTG ATGAACAAGG CGCTCAACGT AATANTACAA	60
	TTAATGGATT GTTTCACAAG ATGGTAAAGC TAGGATGTCT TTTTATTAAG A	111
45	(2) INFORMATION FOR SEQ ID NO: 1991:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TAAACAAATT CATCAATTGT TAGTGGCATA TCCTAATGTA ATTAGAGAGG AGTT	54
	(2) INFORMATION FOR SEQ ID NO: 1992:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1992:	
15	GAACGATAGA TTGATGAAAA GTTTAAAAAA GTACGTATAT GTTTATTAAG TTTGAGTTT	59
	(2) INFORMATION FOR SEQ ID NO: 1993:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1993:	
	CGAGACCAAA ATATTCGAAC GAATAATTTC AGTGTTTTGC TCCTTTATTA TAGATTCAAG	60
30	CTATGGATAA TAG	73
	(2) INFORMATION FOR SEQ ID NO: 1994:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1994:	
	ATCCATACAA ATGTAACAAG CACAATTGCn GCCATACTTn GCATGACAGT	50
	(2) INFORMATION FOR SEQ ID NO: 1995:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1995:	

	(2) INFORMATION FOR SEQ ID NO: 1996:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1996:	
	TCANTTAANA TTAATGTNCG TTGGGGCTCT AATAAAATTT GTTTACAACG	50
15	(2) INFORMATION FOR SEQ ID NO: 1997:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1997:	
25	TCATGATTTG AAATGACTTT CAATGACTTG GGTGGGACAC TTGTTGCACA GCTGGATGTG	60
	c	61
30	(2) INFORMATION FOR SEQ ID NO: 1998:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1998:	
40	CATGCATTGA TGnTCTCAAA GAACATGATG AAACAGGTCA nCACATGnCA	50
	(2) INFORMATION FOR SEQ ID NO: 1999:	
	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1999:	
	GGTTCGCTAC TGATTGGGTA TACATCTGAT TTAGCAATCT TGCGCACTTG TT	52

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2000:	
10	ATGTGGTTAG ATATCTGCAC ACTTGAACGT TATTGTGGGA TATACTTGGC CAT	53
	(2) INFORMATION FOR SEQ ID NO: 2001:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2001:	
	ATCTCAGTAA GGGTAAGCGT CAAAGTCTGC ACGGATGCTA ATGTTTACCA GGTT	54
25	(2) INFORMATION FOR SEQ ID NO: 2002:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2002:	
35	CTAAAGATTG TAATGCTTGA ACAATTGGTT CAGTGAATTT TTGGAAATTG TGGAAACTGT	. 60
	TACCATCATC ATCTGTTATA AAACTAAAGT TTAAATTGCC AGTATCATGA TAAACAGCGC	120
40	CACCACCAGA AATTCTTCTT ACTACATCGA TGTTGTGAGC ATCGATATAT GTCTGATTTA	180
	CTTCCTCTAT CGTATTTTGA TTCTTTCCAA CAATGATAGA TGGTCTATTT ATGTAAAATA	240
	AAAAGTAACT TTCTTCTGCT GGTAAATTTT TTAAAACATA TTCTTCCATT GCTAAGTTTA	300
45	AAGTTGGATC TGTAATATTA TTATTACTAA TGAATTTCAT TACAATCTCT CCCTTATATC	360
	TATATATAT CTCTACTTAT TTATGCCTTA ACTTTGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 2003:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2003:	
	CCGAAATAGG ACGGGCAGTT GGATTTATTC GAAATGGGTG GCGTTAATAT ATACAGT	57
5	(2) INFORMATION FOR SEQ ID NO: 2004:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2004:	
15	NAGTAGTTGA AGGCGACCGC GGTCCACAAG CTGCAAACGT TGTTAAACTA TAATTCTTAG	60
	ATTTGAATCA TTGATTTTAA CTAACACCTT ACCAAGAAGT AAGGTGTTTT TA	112
20	(2) INFORMATION FOR SEQ ID NO: 2005:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2005:	
30	AAATCTTGAC ATAGGCACAG GAATGTATAT TGATCTCGAT CACTTAAGTC	- 50
35	(2) INFORMATION FOR SEQ ID NO: 2006: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2006:	
	AAGGTGGGTT TAAATTTCCC AAAAAAAAAA GCCTTTTAAC CTTTTGGGGG GTCCCCTTTC	60
45	CTTGGAATTG GAAAGGGGCC AAAATTGGAA TAAGGGGTTT GGAAAAACCC AAGCC	119
	(2) INFORMATION FOR SEQ ID NO: 2007:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2007:	
	TGAAGAAATA GCAAATGAAC TCAATATTTC TATTGAACGT CAATATTTCA ACCAATTATA	60
5	TCGCTTCAAT AATCAAGATT TAAAGCATCT TGAACAAGAn TTTGA	105
	(2) INFORMATION FOR SEQ ID NO: 2008:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2008:	
	ATTGGCTACT AAAGTTAAGG ACATGATGGA TTGGATTAGT GGTATGCGCT TTGAAAAGAT	60
	CAATTAT	67
20	(2) INFORMATION FOR SEQ ID NO: 2009:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2009:	
	TATAAATTAG CGTCCTTCAT ATCACAACGA TGATGCTCTG TGCGAAGATC TGATTTATTT	60
	CAATGTGCGC ACG	73
35	(2) INFORMATION FOR SEQ ID NO: 2010:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2010:	51
	(2) INFORMATION FOR SEQ ID NO: 2011:	J.
	(1) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 88 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2011:	
	TAACGACCAA GCTTAAAGAG ATACGCTCTT ATGCGATTGG ATAGGTCGTT AAAGTTAACT	60
10	ACAATACCTC ATAAGTAGAT TTAGAATC	88
10	(2) INFORMATION FOR SEQ ID NO: 2012:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2012:	
	GTCAACCCTT GCCAAGCTTA TATCACGATA CTGGGATGTG ACTTCCGGTG AATTAC	56
25	(2) INFORMATION FOR SEQ ID NO: 2013: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2013:	
35	AGCTTATAGT ACTTGTGACT TCATAATGGA TGAAGTTGAA GTACCAAAAG AATTAACACA	60
	ATTACACGAA TAATTTAAAT AGAGAGTGTG ATAGTAGGTG GAATTATTAA ATAGTTATAA	120
	TTTTGTTTTA TTCGTATTAA CTCAAATGAT ATTAATGTTT ACAATACCAG CTATAATTAG	180
40	TGGTATTAAG TACAGTAAAC TTGATTATTT TTTCATCATA GTAATTTCGA CATTATCGTT	240
	ATTICTATTI AAAATGTTTG ATAGCGCGTC CTTAATCATA TTAACTTCAT TTATTATTAT	300
	AATGRATTTT GTCAAAATCA AATGGRATTC RATTTTGTTG ATTATGGCTT CGCAGATTAT	360
45	CCATACTGGT GCCAACTACA TGGATATAGT TATATATGCA	400
	(2) INFORMATION FOR SEQ ID NO: 2014:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2014:	
5	TCTTTCGAGG ACAGTAGAGG GTCCACCCTA TTGGACGTGG TACTGTACTA CTTTTAAA	58
3	(2) INFORMATION FOR SEQ ID NO: 2015:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2015:	
	TCTACCTGCA GGCATTCAAG CTTGGCACTT GCCGTCTTTT TACAACGTCG TGACT	55
20	(2) INFORMATION FOR SEQ ID NO: 2016:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2016:	
30	TACTCTTAAG CTAACAACGG CGGTTATGAG TCCTTTGACA AGGTATCGGA GGAAAGACCG	60
	TAAAGC	66
35	(2) INFORMATION FOR SEQ ID NO: 2017:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 105 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2017:	
45	CCAATAAGCA CACTGCCATT ATTGAGGACG GTACATHTAC GGTTAGACCC AATTGTTCAT	60
	GGCGGTGGGC ACATAGTGTT TGGCTTTGAG GAGGTTACCA TTGCC	105
	(2) INFORMATION FOR SEQ ID NO: 2018:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
e e	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2018:	
	CCTTCCAATA GTAATTGATT GATGTATGAG TATATTAGGT GTGAAATCAA GAGGATTC	58
5	(2) INFORMATION FOR SEQ ID NO: 2019:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2019:	
	TTTCCTCGTA GGTGGTTCTT CTTCATCTTC GTTGTTTTGT CCGAAGTTTG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2020:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2020:	
30	ATAGTTTAGG TGAGGATGTT GnGGTACGAC AGGAAGAAAG ACGGCAAACA	50
	(2) INFORMATION FOR SEQ ID NO: 2021:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2021:	
	TTGTCACAAT AATTTCTTCA GGATCATAGG AAAAATGATA ACGATTTTTG AAGTATTGAC	60
45	TAATTGCTTC GCGAGTTTCT AATAACCCTT TATTGTGAGA GTATGATGTC TTGTCATTGT	120
	TAATAGCATC AATATATGCC TTTTTCACAA CATCAGGCAT CGGGAAGTCT GGTTGGCCAA	180
	TAGTTAAATT AACACAATCA TCCAAATTAT TCATACGATT TGAAAATTGG CGATACTTGG	240
50	GTGGCTCCTA AAATAATTAG GAAATGAGGA NTTNAAGGAA GGTTTCCATT TNGTGGACAC	300
	(2) INFORMATION FOR SEQ ID NO: 2022:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2022:	
	• • • • • • • • • • • • • • • • • • • •	
	TCATCCAAAT TATTCATACG ATTTGAAAAT TGGCGAATAC TTGGTGCTCT TAAATATTTA	60
10	GAATTAGAAT TTAAAGAAAG TTTCATTTGT GACACCTCAA ATATAAATCA AATATTGTCT	120
	AAAAATTTAG AAATTAATAA TATCATAACA TACTTTTAAA GCAAAAAAGG GTAAATTACT	180
	TAAGCTTTAT TTGAAAAACG AAAAATGTCT AAATACACTG TAGTAACTAC TTTTCAAAAT	240
15	GAATAAAGTG GTTACAGTTA ATGTACTTAG ACAGTATAAA ATTATGAATC TTTAAACTGT	300
	GATGGTCTTT GTAAATTAAT TATTGGATTT GTCCATTTAC AAACAAAGTT TGTAGATAAT	360
	ACATATACGA TGATTACAGA TATACTTATT AAATAAAGAT	400
20	(2) INFORMATION FOR SEQ ID NO: 2023:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2023:	
	TTMAAATATA CCAATCACGT TCATCCACAG TGATCCTAGA CCAATCCAGA	50
35	(2) INFORMATION FOR SEQ ID NO: 2024:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2024:	
45	TTTTTAATGG TTTAAAAATT CCCTAATAAA ATTTTGGAAA ACCTAAATTC CAAGGGGTTA	60
	AATTCC	66
	(2) INFORMATION FOR SEQ ID NO: 2025:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2025:	
	GTAAGAGCAA TGGCGCAAAA TGCCTGTAAT GATATTGTGA ACGTAATTGA ATCAGTAGAG	60
5	GACC	64
	(2) INFORMATION FOR SEQ ID NO: 2026:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2026:	
	CTGTCGCTGC GTGACTTAAT TCTTTTGCCC CGTTGGCATA TGAGGAAATG TCA	53
20	(2) INFORMATION FOR SEQ ID NO: 2027:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2027: CATTICACTA TTATIGGITT AGGGTTGITC ACGITCATCA TGACCGCACC ACA	53
	(2) INFORMATION FOR SEQ ID NO: 2028:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2028:	
	CAACTAGACA TAGTATTGCT GCATTAATCA AGTCAAGCTG CCACACTAAG AATCGATGCA	60
45	AACGGAATCG TCA	73
	(2) INFORMATION FOR SEQ ID NO: 2029:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2029:	
	AATAATAATT CTGGAATAGT GTTTAATACT TATTnTCCGT TTAAGATTTC AACTTAATAT	60
5	GGTTTACAGC GCGTAGCTCG TCTAATTCAT CATCACGTGT AGAGTGCTCT GCCTTATCAG	120
	ATCAGTT	127
	(2) INFORMATION FOR SEQ ID NO: 2030:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2030:	
20	GCAAGTGAAT TGAAGTGACA TGTGGCTGGT GCTTCATGGT AATGATAAAC CAACACCATG	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 2031:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2031:	
35	ATAAATATCT ATTTAGATAT AAGTATTGAT AAGTTGCTTG AATTTATAAA GTGAAGGAGT	60
	AGGTGTCATT AGTATAGT	78
	(2) INFORMATION FOR SEQ ID NO: 2032:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2032:	
50	GAATAGTGTT TATAAAATGT TGACACTGTA GTGGCATATT GTAAATTAAA TATTATTATG	60
50	TGATCATTTT GTTTAAATAT TAGTTATAAG AAGTGAAATA nTCATTTTAA AAGGAGACTT	120
	AAAACTTGAA ACGATCAACG AATCAAGAAA AATTTCTTGA TACACTAATT AGACTTAATA	180

	(2) INFORMATION FOR SEQ ID NO: 2033:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2033:	
	TTTTGTCATC TGTATAGGTA TGCGCGCCGG TGTCTTTATT CACTTTGAAC TGTGCGT	57
15	(2) INFORMATION FOR SEQ ID NO: 2034:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2034:	
25	AAGGCATTGG ATATAAGACT TGATGTTGCA TGGCAATCAC ACTGCCTAAT CCTTGCATAT	60
	AA	62
30	(2) INFORMATION FOR SEQ ID NO: 2035: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	-
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2035:	
40	ATGGCAAATA CTATACATCG TCCAATTGAT TGAAAAATAT GGTTATTAAA GA	52
	(2) INFORMATION FOR SEQ ID NO: 2036:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2036:	
	AAGGTGTTTT TATATGCTTA TTACAAATAC TTAACGCGAT GAGTTTCTCA ACCAAATTGA	60
ee		

	(2) INFORMATION FOR SEQ ID NO: 2037:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2037:	
	TACCCACCCC CAAACCCAAG GTTTTAAAAA ACCCCTTCCA AAAGCCCGGA AAAACCAAAA	60
15	GGAATTATTT T	71
	(2) INFORMATION FOR SEQ ID NO: 2038:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2038:	
	GAATCCCGGA AGTACAATTT GGTACGTGAA GAAAATGGTA GTGGAATTAC	50
30	(2) INFORMATION FOR SEQ ID NO: 2039: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2039:	
40	CAGTATCTCT TGGTATTTTA ATTGGTGCTT TATTAAACGT AATTTTACCT TTATATATCG	60
	ATGGAGCGAA GAGTATTTTC GTATACGTTT ATAGTGCGTC TATTTTACCA GGTATGATTC	120
	CTTGGTTTAT GATTTTATTC AGTCATTTAC GTTTTAGAAA ATTACACCCT GAAGAATTGG	180
45	AAGGTCACCC ATTCAAAATG CCTGGTGGCG CAGTAACTAA CTATTTAACA ATCTTATTCT	240
	TAATATTAGT ATTGGTTGGT ATGGTATTTA ATGTTGAAAC TAGAATATCA GTGCTTATTG	300
50	GTGTCATCTT CTTAACGATT GTAACGATTT ATTATTTTAT TAGATATAAT AAAAnTAATG	360
•	TAAAGCANAA TAGTATGTTA TAANGAGCGN TACTTATGAC	400
	(2) INFORMATION FOR SEQ ID NO: 2040:	

5	(A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2040:	
10	AAGCTGATTT TTCTAAATGT TGAAAATCAT AAACTGCTTA ATAATAAATA ACGAGATCTA	60
	AGTAATAGTG CTCCATTAA	79
	(2) INFORMATION FOR SEQ ID NO: 2041:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2041:	
25	AATTGAACGG ATCGTTCCCA ACCGTTATCA ACCCAGACCG GTGTTTGAAC CCAA	54
	(2) INFORMATION FOR SEQ ID NO: 2042:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2042:	
	AATGGGATTG GTTCAAACTG AAATGGGCTG TTAGTCCCTG TAAAACCAAG	50
40	(2) INFORMATION FOR SEQ ID NO: 2043:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2043:	
50	ATTGGNATAA TCAAAGCATT GAATCATACA TAGTCACATT GATTGTTTCC TCAGAGTTTC	60
	AACACTCTAT AACTCATTTT AGTAATTTGC TGATTGCGCA CTTCATGTG	109
	(2) INFORMATION FOR SEQ ID NO: 2044:	
CC		

5	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2044:	
10	TTTTATGGAG GTGATGAAGT GGGTGAAGCT GAAAGGAAGC AAAAGCTTGG	50
	(2) INFORMATION FOR SEQ ID NO: 2045:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2045:	
	TTGGCCCCCT TCCAACCCTT GGAAATTTTA AAAGGCCAnT TTTGGGGTAA AACCCTTGGT	60
25	TCCAAGGACC CCCAAAAGTT TTTTAACCTT CCAATTATTA T	101
	(2) INFORMATION FOR SEQ ID NO: 2046:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2046:	
	ACCCTTTCCA AAAAGCCCAT TTTGAATTCC CCAAAGGGAG CCAAATTTAA GATGGCCGCn	60
40	AAAAAGGACC GGGGGGTCCA TGTTTTAATT TAAGCCGGAC	100
.•	(2) INFORMATION FOR SEQ ID NO: 2047:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2047:	
	GTTAGTTATG AGCAACGTAT TAATGAAATT ATTGAGCAGT AATTMACCAG	50
	(2) INFORMATION FOR SEQ ID NO: 2048:	
55		

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2048:	
10	TACGTATTTT CAAATGACGT TGGTGGACGT CACACTCCAT TCTTCTCAAA CTATCG	56
	(2) INFORMATION FOR SEQ ID NO: 2049:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2049:	
	TTTTCCCCCC CCCCCCAAA TTGGGGGTTA AAATTTTAAA AAAAGGGGTT AAAGGGAAAC	60
25	CCCAATTCCG GTTAACCTTT TG	82
	(2) INFORMATION FOR SEQ ID NO: 2050:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2050:	
	TCAGATGGAT GGCAGTTATT TGGTATTCCA TGGGTATAAA GATAGCATAT T	51
40	(2) INFORMATION FOR SEQ ID NO: 2051:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs	•
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2051:	
50	TGAACGGGAG AAAGATGTTG TTGCATGGTG TCTCGGAAAC GTTTGTGTCC ACGTA	55
	(2) INFORMATION FOR SEQ ID NO: 2052:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 74 base pairs	

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2052:	
	ATACCTGGAT GCAAAGGCAA AGTCGCAATT TTCCCTGTTC TAATGTGTCT AACTTCTCTT	60
		74
10	CTAAAGTTCA GGTT	/ •
	(2) INFORMATION FOR SEQ ID NO: 2053:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2053:	
	AATCTTGTCT GATGTAATGT TCAGGTCCCT TGACCCTCAT ATGCATGAGG T	51
25	(2) INFORMATION FOR SEQ ID NO: 2054:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2054:	
33	CATCGACTTA TAGCTTAATT ATTATAAAAA ATTTCTCCAG ATTTAACTTT CT	52
40	(2) INFORMATION FOR SEQ ID NO: 2055: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2055:	
	ACTGACACAT TATATTAGTG AATTATTAAA AAATGATGAG AAAATTAAAA TCATCATGAA	60
50	TGAATTCGGT ACTTTTGATA TTGATAGCAA TAGTATTTCA AATGAAATTG AAGTCCATTC	120
	ATTGATTAAT GGTTGTGTTT GTTGCGATCT TAAACAAGAA CTTGTCTATG AACTAAAAGC	180
	CATTGCTTTA AAAGGGGACG TTAATCATGT CATCATAGAA GCGACAGGCA TTGCGCATCC	240
55		

	TTATTTATGG TGTATTAGAT GCGACTCGAT TTTTAGAACG TCATCAATAT ACCGAAAAAT	360
5	ACAGTTTCGC TGGATGGGGA GGATCCAGTT GGAAACTAAn	400
3	(2) INFORMATION FOR SEQ ID NO: 2056:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2056:	
	TCAAAACTTT GAAGTTGTGC TTGCTTTGCA CCATTTTTAA AATGTTCAGC TGAGAGTATA	60
	TCTTCCGCTG TAAAATTTAC TTCTCCTGGA CTTAAAGATT CAATTAACAA CCAAGCCGAT	120
20	AACGTATCAT TTAGCAATTG ACTCATGAAA TCCCACCTTG TTCCCTATTT GTTTTTACT	180
	TAATGCTATT TTAACAAATA ATTTAATCAT ATTAGTGTTT TTTCAAAAAT ATTCATATAT	240
25	TATCATTACC ATATTTATTC AACAAATGTT TGTAAAATCC TCACTAATAA AATTAATCGA	300
23	TATGACCATA ATTCATTATC CAATAAATGA CTATAAAAAT TTCTnCTATG CCTTCATTTG	360
	CAACTAAATT TGGACATCAA AAAAGAGCAC TCCTGAATGA	400
30	(2) INFORMATION FOR SEQ ID NO: 2057:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2057:	
40	TTGTTGTTGT GATTTCACAT TTTCAAAATT TTGTTGCATG TTGTTAACTT CATAAATTAG	60
	TGATTCGACT ACATCATTCA TGAGGACGCC TCCTACATTT TTTAATTTAT CACAATATAC	120
45	TGTATTCGTC ATGTTTTAAC ACTCTATATA ATTTGATTTA ACTATTTTTT CAAATGTGTT	180
	ATCTGTTAAA TCAAGTAAAT CTAAAAACTT CCTATATAAA TACAAAATTT TATCGTGTAT	240
	GTTGTTATAC GATGAAAATA CTTTTAATCT AATAAAATCA TTTAAATCAA ATACACCTCT	300
50	GCTGATTAAC AACACATACT TGTACTTGCC TCAAAAATAA AAATTACTAA TCATGATTTG	360
	ACTTTTATAA CAAAATTCAA AAATATTGTA ATGAGTATTC	400
	(2) INFORMATION FOR SEQ ID NO: 2058:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2058:	
10	TCTTTTTACT CGCAATTTTA GGAAAAATGG TTGGATCAAT TGATAAAACC GGAAAATTAT	60
	TAACAATAAT CAATAAAATA TCAAGCATAA TAATTATTAT TGTTGCTCTG ATGATATTAC	120
	AAAAACTTAT TCAATTATTA TTCTAAAGCG TTATGTAGTT GTATTTTAAA AGCGTTATAC	180
15	AAAAGACATA CTTGTGTCTA TGTATAACGC TTTATTTATT ATAAATTTGG ATCAATTAAC	240
	TCAACAAATT TAAATGTTCC ATTGTCATAT TCAAATTTCA GGATATTACA ATTACCGATA	300
	TTATGCTTTA ATGCTTCATC TAGTTTAAGG CAATATCTTA AAAATACCNC CCTTANTGGT	360
20	CCATGACTCA CGACTAATGC ATTATTCTTT GGTTTGAGAC	400
	(2) INFORMATION FOR SEQ ID NO: 2059:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2059:	
	AAAACAACAC AATCAAAAAT ATTGGATACA ACTGAAAAGT TATCAAAGCT A	51
35	(2) INFORMATION FOR SEQ ID NO: 2060:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2060:	
	TTATCATGTT TAGTAGATTT TAAGAAGCTA GAACATTGTA GATATGATGA	50
	(2) INFORMATION FOR SEQ ID NO: 2061:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2061:	
5	AACGTCGTmA TATCAMCTTG CCAAACAAAG ATATTGTCAC CTTTTATCGG	50
	(2) INFORMATION FOR SEQ ID NO: 2062:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2062:	
	ACCATGGTGn ATATGGTCAT GATGATCGTT TGTGCCGGGA GCTTGAGCTG	50
20	(2) INFORMATION FOR SEQ ID NO: 2063:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(C) STRANDEDNESS: GOUDTE (D) TOPOLOGY: linear	
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2063:	
30	TTTCCCTTGG TTTTGGAATT TAACCAAATT TGGGAGGGAT TTGGGACCAC CCCCAGGATT	60
	TTAAAAAAA AAAATCCCAG G	81
	(2) INFORMATION FOR SEQ ID NO: 2064:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 51 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2064:	
45	TTTTGGGGAC CTTAACTGGG TGGGTCTGGA ACTGTTTCCC TTTCAAACAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2065:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

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	ATGATGTATT CAAAAGGTAT CTATAAAATA GCTTTAGTTG GAAAAGATGA GA	52
5	(2) INFORMATION FOR SEQ ID NO: 2066:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2066:	•
15	TTTCATCACT GGCATCTTGT AATTTCTTGG TCTCATATCT GGAATTAATA GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2067:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2067:	
	AACCATTAAG AAATTGGATA CACAGAGCAA ATATGGTTAT GATTAGGAAC CATGGCATTT	60
30	ACC	63
	(2) INFORMATION FOR SEQ ID NO: 2068:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2068:	
	AAAGGCAGCG ATGTTACTCA TACCGAACCT GGTTATATAT GAGCGATGAT GCAATGTA	58
45	(2) INFORMATION FOR SEQ ID NO: 2069:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2069:	

	AACAGGA	67
_	(2) INFORMATION FOR SEQ ID NO: 2070:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	, , , , , , , , , , , , , , , , , , ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2070:	
15	CATTTAACCC ATCTTCTTTT TTTAATTCTT CTATACTACG GTTTAAAAAC TCTACAATAA	60
	CTGCCATTTC ATCATCATCA AAGACT	. 86
	(2) INFORMATION FOR SEQ ID NO: 2071:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2071:	
30	GTTTCTTCAA AATATGTGTA TTACCTTTTT GTATGGTTAA ATCTTTTAAT TCTATCATTC	60
	TTGTCTTACC TCTTTTGGTG TATCCTCTTT TTCAACATAT GTGATCGATA TGACATATTG	120
	CCCTTTATGC TTTATTTCGA CATACGTTCT ACTAGGTGAA AATCCATTAA ATGTTAATTT	180
35	ATAATCAAGC TTTTCCCCTC TTTCACTATA AGCCGTAATA TTAACATATT GTTGCGTACC	240
	TTTTGGCACT TTGGCATAAC TATACTCCGT TTTTAAGAAA GGATTAAAAC GATCAAGTAT	300
	AGGATGATGT ATGANTGTAA AAGCAATAGT AATGGATAAT ATTAATCCTA ATAATATTGC	360
40	AATGATAAAT TTCATAGTTA A	381
	(2) INFORMATION FOR SEQ ID NO: 2072:	,
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2072:	
	ATCCCCGAAT TGCTTCGCAA ATGTATCATC TTCGAGGCTA CGTTACTTAA AT	52
55		

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2073:	
	CCAAAAACAG CATCACTGTG ATTATGGTTT TCATCTTCTA TAACTAAGAA TACATGTTTT	60
	TTTGTAAAA TTTTTTTGAT CA	82
15	(2) INFORMATION FOR SEQ ID NO: 2074:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2074:	
	TTTATCGCAA TGAGGGAAGA TAAAGGATCC CGAAAGCGCC GTATGGGTTG GCAAACATTG	60
	GGGACCAAGA CCGTTCCCCA TA	82
30	(2) INFORMATION FOR SEQ ID NO: 2075:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2075:	
40	CTTGGTTGCT CTTTATTTAT TTAATTGAGA CCTAGAAATA AGTTATTAAG CACAATCATT	60
	CACTTT	66
45	(2) INFORMATION FOR SEQ ID NO: 2076:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(will croutened description, SEO ID NO. 2076.	

(2) INFORMATION FOR SEQ ID NO: 2077:

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5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2077:	
	TACGTTCTAT CATAGAGCCT GGAGATGAAA TTATAATACC GGGACCAATT TATGCAGGCT	60
15	ACATACCACT CATCGAAGTA CTAGGTGGTA AACCAATTTA TATTGATACA ACAGCAACAC	120
13	AATTTAMAAT TACACCTGAT GCATTAGAAA GTCATATTTC TCCAAAGACA AGAGCTGTCT	. 180
	TGTTAAATTA TCCGACTAAT CCAACTGGCG TAGTTTTAAA AAGAAALGAA GTTYTAFATA	240
20	TCGTAAATGT ATTAAAAAA TATCCGTTAT TTATTATTAG CGATGAGATT TATGCTGAAA	300
	ATACATTTAG TGGTAAACAT GTATCC	326
	(2) INFORMATION FOR SEQ ID NO: 2078:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2078:	
35	ACCCCTTAAT TTAATTGATG TTTTGTTATT TTTAAAATGA ATAGTTGAAG AAAAAT	56
	(2) INFORMATION FOR SEQ ID NO: 2079:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2079:	
	CACGTACTGC CATGTATGCA CAAGCCGGCA TTCATAAAGC CTTCCATGGC AGTCGTTATC	60
50	A	61
	(2) INFORMATION FOR SEQ ID NO: 2080:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2080:	
	TGGGACAGGG CGTACCATTT CAAAATGATA GTTCTGAGCT GCTAATTAAT ATGCCTTCGA	60
10	AAAAGATGAG TTTAAATTTA GATGATGAGA CTGA	94
	(2) INFORMATION FOR SEQ ID NO: 2081:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2081:	
	AAGACGACAT GCAAGACATT GCCTTATCTA ATGACAATGT TAAAGCGAGT	50
25	(2) INFORMATION FOR SEQ ID NO: 2082:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2082:	
35	TTGTTCGGCT AAAAATAAAG TGGCATTGAC GTGACCGCAA GTTGACGTAC	50
	(2) INFORMATION FOR SEQ ID NO: 2083:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2083:	
	CTTCCCAACA TTGCGCACTG AATGGCGATG GCGCTGATGC GTATTTCTCC TACGCTCTnG	60
50	CGTATTCAAC CGCTATGGGC ATCTCATACA TCTGTCGATG CGCTATTAAG CAGCCCGAAC	120
	CGCACACCGT GAG	133
	(2) INFORMATION FOR SEQ ID NO: 2084:	

5	(A) LENGTH: 57 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2084:	
10	GGTAGGGGCA CTATTTTGTA TGTAGAGGTT TTGTCGGGCA GTGTGAAATC AACGACT	57
	(2) INFORMATION FOR SEQ ID NO: 2085:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2085:	
	CCCCCCCAA AAACCGCCCC CCCCAATTTG GCCTTTTTCC AAGGGGGGTG TTTTAA	56
25	(2) INFORMATION FOR SEQ ID NO: 2086:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2086:	
35	AATAGCGAGA GCCCGACCAT CGCCTCCAGA TTGCGACTGA ATGGCAATGC GCTGATGCGT	60
	ATTTCTCCTA CCATCGTGGT ATTCAACGAT ATGGGCACTC TCATACAATn GCTC	114
40	(2) INFORMATION FOR SEQ ID NO: 2087:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 80 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2087:	
50	AAGGGGGAAA AGGAACCCAA GGCCCCCTTC CCAAGGAAAT TGGGGGGTTG GAAAAAACCA	60
	AAAATTTTT AAAAACCCGG	80
	(2) INFORMATION FOR SEQ ID NO: 2088:	

5	(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2088:	
10	GGGGTAAGTG GTTGAGACAG GAACTTTACA AGAGGTGTTT CGTCATCCTA GAACGACGCT	60
	TGCTCA	66
	(2) INFORMATION FOR SEQ ID NO: 2089:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2089:	
25	ATCAATGTAT TACGTATCGA AGGTGAATTA TATCATACTG CTAAATATGA CGGTTTCACA	60
	TC .	62
	(2) INFORMATION FOR SEQ ID NO: 2090:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2090:	
	GAATTCGCTA TCCTGAAATC CTGAGTCGCT GTCCTGAAAT CTGAAATCGC	50
40	(2) INFORMATION FOR SEQ ID NO: 2091:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2091:	
50	CGGGGTTCCC CCGTTCAATT CCCTTTGAGT TTTCAACCTT GCGGGTCGTA ATTCCCCAGG	60
		74
55	CCGGAATTGC TTAA	/4
33		

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2092:	
	ATTGTTGGGT ACGGTGGTGG GTTAATAATC CAAACACGTT AAACTACCCG TTTTAGATAT	60
	ACCTATACAA	70
15	(2) INFORMATION FOR SEQ ID NO: 2093:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2093:	
	GTTTTGGGTC TTGGGTATTA GTTTAATCTC CATCATGGTT AATTGGTATG GTATTGGTAT	60
	TAGTAATCAT GTATGATGGG CTGGGCGG	88
30	(2) INFORMATION FOR SEQ ID NO: 2094:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2094: TGGCCATTGA GGCGCATTAC GTACTACGGC TTGTCGTAGG GACAATTATT AT	52
	·	32
	(2) INFORMATION FOR SEQ ID NO: 2095:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2095:	
£ 5	AGTTGATGCA ATGAGTGATG CAAGGCGACT GAAAAGTTGG TATGAATGAC AAAACTTTAA	60

	(2) INFORMATION FOR SEQ ID NO: 2096:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	() anomalon processors of the No. 2006.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2096:	53
	ACTTAAAATC TAATACGGTA TTTTCAAAAA CGAATAAAAG TTACCTCTTG TCT	23
15	(2) INFORMATION FOR SEQ ID NO: 2097:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2097:	
	AACTTAATAT TGCTACGATA TGAACGGCAT nAACATACTT AGCGnTGnTC	50
	(2) INFORMATION FOR SEQ ID NO: 2098:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2098:	
40	CAAAATAAGA AATTAATTAA GAAAATGCCA AGATGCCAGA TGCCATCGGC GGAAAGGAAA	60
	TTGCACGTAC GG	72
	(2) INFORMATION FOR SEQ ID NO: 2099:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2099:	
5.5	CCACCCAAAC CCAAAAAATA AAGCCCAAAA AATTGCCAAG GAAGGAAAAG GAAAATTGTT	60

	(2) INFORMATION FOR SEQ ID NO: 2100:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2100:	
	CACCAATTTC TTCTGGnGCT GGATCTCGAC CTAAGTCCTG TAATAATTGA CGTTGAACAC	60
15	GAATTAATTT ATTAATTGTT TCTACCATAT GCACAGGGAT ACGAATCGTA CGTGCTTGGT	120
	CAGCAATTGC ACGAGTGATT GCTTGTCTAA TCCACCATGT TGCATATGTT GAAAACTTAA	180
	ATCCTTTGTT AAAGTCAAAT TTTTCAAC	208
20	(2) INFORMATION FOR SEQ ID NO: 2101:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2101:	
	TAATGAAATT AAGTAAAATA AAAATTATTT CATGGATTGC TTCTATCTAT ATCGAAATAT	60
35	TAAGAGGAAC ACCAATGTTA GTTCAAGTAT TTATCGTATT CTTTGGTATA ACTGCTGCAT	120
	TAGGACTAGA CATTTCAGCT CTTGTTTGTG GAACAATTGC ATTAGTTATT AATTCCTCAG	180
	CTTACATTGC TGAAATTATT CGTGCAGGTA TAAATGCTGT TGATAAAGGC CAAATGGAAG	
40	CCGCACGTAG TCTAGGTTTG AATTATAGAC AAACGATGAA AAGTGTAATT ATGCCACAAG	300
	CAATTAAAAA TATTTTACCA GCTTTAGGTA ATGAATTTGT CACTTTAATT AAAGAATCAT	360
	CTATTGTGTC AACAATTGGA GTTGGCGAAA TTATGTTTAA	400
45	(2) INFORMATION FOR SEQ ID NO: 2102:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2102:

(2) INFORMATION FOR SEQ ID NO: 2103:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2103:	
	TTTAAGGAGA AAGGTCATTG GTATAATCTT GAGAAAGAGT GGCAAGAGTT CTTAAACTCT	60
15	GGGAAAGAGG TGAAAAATAT TAAAATGGAA GTAAAATATA GCGGTAATAG TCAAAGACCG	120
	ACTATATTTA AAGTTGAATA TGAAATTAAT GGTGAAAGAA ATATTAGAAG AATATTAAAT	180
	AAGTAGAGGT GCCAACATGA CATTTGAAGA GAAGCTTAGC AAAATATACA ATGAAATTGC	240
20	GAATGAGATT AGCAGTATGA TACCGGTAGA GTGGGAAAAA GTATATACAA TGGCTTATAT	300
•	AGATGATGGA GGAGGTGAAG TATTCTnTAA TTATACTAAA CCAGGnAGTG ATGACTTGAA	360
25	TTATTACACC AATATACCTA AGGGTATAAC ATTCCGGTGC	400
	(2) INFORMATION FOR SEQ ID NO: 2104:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2104:	
	AACCATCATA AAATGTTATT AAACCGTCAT GGACCGCGTC ACCATTTAGT CCT	53
40	(2) INFORMATION FOR SEQ ID NO: 2105:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid	·
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2105:	
50	AAGCACAAAT TAGCAGAGTG TTTTAATTTA AATGAACAAG TACCTTTACA ATTTTTGGAT	60
	AATGTAAAAG TTGGTAAAAA TAATATTTAT GnTGCTTTGG AAGAGTTTGC CAACAA	116
55	(2) INFORMATION FOR SEQ ID NO: 2106:	

5	(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2106:	
10	AATTTGCAAA AGAATCATGG ACAATTGAAA GCAAAAAGGA TCATCATTAA AATTGAACTG	60
	, c	61
	(2) INFORMATION FOR SEQ ID NO: 2107:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2107:	
25	GAACCAATGT TAAGCTAATT AATGGAATCC TAACAGCGTT AATCTATTTA AAAAACTTAA	60
	(2) INFORMATION FOR SEQ ID NO: 2108:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2108:	
	ATTTGAMAAT GAATCTGTGG AACATTTTGC TAATCATGAG GATAAAATCA TATGATGTTG	60
40	AAAGCGAGAA TGGGATTACG TTAAACGTGG GCGCTGCTAA TTTAAGCACC TTATTTAGTG	120
	GAAGAT	126
	(2) INFORMATION FOR SEQ ID NO: 2109:	
45 50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
•		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2109:	
<i>55</i>	ATAATGTTAA AAAAACGGCA ACTAATCTTT TCATACTAAC AATGATTATA TGTACAATAA	60

	CGTTAATAAT GCTAGATAAT TTTAAAAAAA TGAAAAACCG TGAATATCAA AAAGAAATAG	180
5	CAGAAAAAA TAGACATATT AATACATTAA TTGCTGAACA AGAGCGACAT AGAATTGGTC	240
	AAGACTTACA TGATACGTTA GGGCATGTGT TTGCAAGTTT ATCATTAAAA TCAGAATTAG	300
	CTTATAAACT AATAGATGCT GATGTAGANA AAGTAAAAGC TGAATTATTA GCAATTAATA	360
10	AATTATCTCG TGAATCATTG NACAAAAGTC GAGAAATTAN	400
	(2) INFORMATION FOR SEQ ID NO: 2110:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2110:	
	AAGATTTAAT ATCGGGGGTA ATGTTGATTT TCAAATATCG CGATGTGCTT GTACCACCAT	60
	T	61
25	(2) INFORMATION FOR SEQ ID NO: 2111:	01
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2111:	
	TATACTAAAT TATGGCAACT TGGCTCATAT AGGTCGAGTT ACCAGACATA TTCGG	55
40	(2) INFORMATION FOR SEQ ID NO: 2112:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2112:	
50	CGAATAAGTT CTGGGCCTTT TGTTGTTCAT TAGCTTGTTT CTGTTTTGAT TGTTCTGCCA	60
	TTTGAACTAC ACCAACCTTT TAAATTTATT CTAGTGACAG GATAACTAAA ATATATTTCT	120
<i>\$5</i>	TATGCAATAA TTTCCTATTG ATAAGCATTT TCAGATTTTA GTTGTAAATT TTGCCCTAAT	180

	AATTTATAAA GAATAAATTC GTCTCCTCTT TGACCTATAA TATATTGAnC ATTATAAGCC	300
	ATGCGATTCA TTCCAGACAC AGCCATAAAC TCTTGTTTAT CTATCATTTT AAATACCATT	360
5	TTTAATTTGG CTTAATGGGA CATTCCGTAT TAAATCATTT	400
	(2) INFORMATION FOR SEQ ID NO: 2113:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2113:	
	TGTTTTCAAA GCATGGTATA AATGCTTTGT AACATAGGTT TTGCCTACAT CAGTATTCGT	60
20	ACTTGTAATA AAAATCCTCA TAAAAAT	87
	(2) INFORMATION FOR SEQ ID NO: 2114:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2114:	
	TTTACAAGTT AAATATAnCA CTAAAAATTT TTAAGTCAAT AAGAATATAT	50
35	(2) INFORMATION FOR SEQ ID NO: 2115:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2115:	
	TGTGCATAAA ATCCTTTTAC TTTTTGTAAT TGATTGTTAT CTTTAACAAT TA	52
	(2) INFORMATION FOR SEQ ID NO: 2116:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2116:	
	ATTTANAACC CAATTCCCCA TTATTTTTTA AAACGGATTC CATGGGTGGA CCATTGGAAA	60
5	TTTTAAAAAA ACCATGGCCC CATTCCAAAA AGTTAGGATG GCCAAAAAAGC CTT	113
	(2) INFORMATION FOR SEQ ID NO: 2117:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2117:	
	GATTTATCAA CTATTTCCGT ATTTTGATTA TCTCCATACA ATTTCCAATC CTCTGGCTTA	60
20	TCAATAAATA ATGATAATGG CTTATCTTTC GAT	93
	(2) INFORMATION FOR SEQ ID NO: 2118:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2118:	
	TGATTACCTT GANACATGAC TTTNCCTGAN TGGTAAATAT TTACAGTTGT	50
35	(2) INFORMATION FOR SEQ ID NO: 2119:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 217 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2119:	
	AGATATAAAA TATAAAAAAT TATTAAAAGC TATATCCAAT CAAGACTTTA AAGGGTTAGT	60
	TCCAAATATC AATCAGAATG ATAATTATnC TGAAATATAT ATAATTAACA ATACTAAAAA	120
50	CTTAATATAT CATTTATATG ATGATAGAGG TCTATGGCTA GCTTTTAATA ATAATGAAGA	180
	TTATGCAAGA TATnCTGAAA AATATAATGA TTTAATA	217
	(2) INFORMATION FOR SEQ ID NO: 2120:	

(A) LENGTH: 75 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2120:	
10	AGACTTAGTA AAGTTAGATC ATCTAAAGAT GAGCGTAAAA TTTATATTTA TTTAAATAAT	60
	GGATGATATA TCTAA	75
	(2) INFORMATION FOR SEQ ID NO: 2121:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 87 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2121:	
25	CACCACCTAC ATTTACTATA TAAAATGTAG GAATGGTAGA TTGATTTAGA TAAACTGGAC	60
	GTATCACTTT AAGTGCTTTT TCAAAGA	87
	(2) INFORMATION FOR SEQ ID NO: 2122:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2122:	
40	TGTTCTTTAG CTAAAGCTTT AGCTTCTTCA TCACTTTTAA CTTCATAAAA ATCTACACCA	60
	GTAGCTTCTT	70
	(2) INFORMATION FOR SEQ ID NO: 2123:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2123:	
55	TANATCTAAA AGGAGAAATG CTGAAGATGA GAGAGGTATT TTTGAAATGT	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2124:	
	TTAAAGGGTA ATTGTTTTAA AAAAAGATTA AACCGAGGAC TTTTAATTGT TAAAACCATC	60
	CCT	63
15	(2) INFORMATION FOR SEQ ID NO: 2125:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2125:	
	TGTAAACGAC TATTACATGA TCACAATCCA TTCAGCGCCA TTATATAAAG GTACTTAATA	60
	TAGGACATCA TTCGCAGC	78
30	(2) INFORMATION FOR SEQ ID NO: 2126:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2126:	
40	TTTGGTCGTG TGCAAGACAG AAGTCGACAT ACTCCAATGA AACATCATGT	50
	(2) INFORMATION FOR SEQ ID NO: 2127:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2127:	
	TTTGTGTCGA TGCGCTTTTT CACTTCTTCT GAATGCTCGA AATCATTCGT	50
55		

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2128: TGTCTGAAAT GATCATTAGG ATTGCTCCAG CTCAATGTCA GTnGnAATGA	50
	(2) INFORMATION FOR SEQ ID NO: 2129:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2129:	
	TCCAATTACC TACAAAGTGA GTGCTTTCTT GACCAAGTCA AAACGAACTT TTATATTTGT	60
25	CCAAC	65
	(2) INFORMATION FOR SEQ ID NO: 2130:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2130:	
	TTCCAAGGTG TCGCTGACTT TCAACACACT GAATATATAC CTGCCAGTCG GCTGGTCATG	60
40	c	61
	(2) INFORMATION FOR SEQ ID NO: 2131:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 92 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2131:	
	AGTTCTTCAG TCCAAATGCG GCATGTTGAC CCACCATAGG CGAGGGCATT TTCACCACGG	60

(2) INFORMATION FOR SEQ ID NO: 2132:

5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2132:	
	CCCCTCGAGT TTTTTTTTT TTTTTTTTTA CTGGAGCAAA ATGAATTTTT TTTATTGTAC	60
15	TTCAGGGCAA CAAGTCAACA GCTGCAGGAA AACAAAACCA GGTCCAATCT ATGATCTAAG	120
	AGGAAGTCAG GAAAGGCTTG GAAGAGAGAT CCAAAGGCCA TCCTGGCAAG GGGAATCCCA	180
	CATGAGAATT CCTGGGAGAG AGCAGGCCCC AGGCAGCAAG GTCATCTTGC CTGCTTCTCT	240
20	GTAAGTTAAT CCTTCACAGG GAGCCAAGGC TTCTCTTGAC TGCTTGGACA AGAGGGTAAG	300
	GGCCCTGGTT GCAGGATTTG CCAGTGAAGT CATCCATGTC AATAGACCAG ATCATGGCTC	360
25	CTCCCAGGTT AAATTCCTTA AGAACTGAAC CTTGnCTCCA	400
	(2) INFORMATION FOR SEQ ID NO: 2133:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2133:	
	TTCATCATAC AACATTACAC TTTGTATGAC TAAACCCAAA TTAACGATAT	50
40	(2) INFORMATION FOR SEQ ID NO: 2134: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2134:	
50	GTGGCAAGCT TTTTTAAGGT CTGACTGCCA TCGACGGATC TATGTTAACA GGTGGATCT	59
	(2) INFORMATION FOR SEQ ID NO: 2135:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2135:	
	ATCAAAGTCA TCTnCATGGT CnATCACACC ACGCTTTATA TGGTAATTCT	50
10	(2) INFORMATION FOR SEQ ID NO: 2136:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2136:	
20	CGGGATCTGA GGTCGCTATC TGCAATCTGC AATCGCTATC TGCAATCTGG AG	52
	(2) INFORMATION FOR SEQ ID NO: 2137:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2137:	
	nctcaaccac ccacaacaaca acacaacaag cagcacccac acaccacaca	50
35	(2) INFORMATION FOR SEQ ID NO: 2138:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2138:	
	TGTATTGTCA TTGTAGACGT GTGTAGCCAA ATCATAAGGG CATGTGATTT ACGCATCCAC	60
	CTTCTCGGTT TGTACCGCAG TACTTAG	87
50	(2) INFORMATION FOR SEQ ID NO: 2139:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2139:	
	TTCACCGTTG CGCAACGTTC AAGTTTGAAG TTCGTTTGGC ATGTTGAAAT AAGCACCAGT	60
5	TACACCAAAA CGCCCAG	7:
	(2) INFORMATION FOR SEQ ID NO: 2140:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2140:	
	ATCTTCTAAC ATTCACTTAG TAGCGTnATT TTTCGCTTAT AATGAAATGT TAAGCATATG	60
20	CGGGATTTAT ATTTTAAAGA GACCTTTAGA TACCATATAT ACCTAGGTTA TTGAAAATAT	120
	GGATACCTTA TATAAGTGAT TTGCAATA	148
25	(2) INFORMATION FOR SEQ ID NO: 2141:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2141:	
35	GCTGGCACAT AGATGATCGT CAAGTCGATC TCGCCAGTCT GAAGTCAAGA	50
	(2) INFORMATION FOR SEQ ID NO: 2142:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2142:	
	TTGTTGTAAA TACTATCACT GTACATGGGT GCTATCAAAA TATTGTCAGT TCGTAAAATA	60
50	(2) INFORMATION FOR SEQ ID NO: 2143:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2143:	
	GTAGTATATC TTATTAATTG TATCATGAAG CAATTTAAAT ATCATGACAA TTTAGTTTGA	60
10	AAAACACACT TTGTGTTGAC GTTGTGTTTT ATGGGATATA GNATAGTAAG GAATGTAAAA	120
	TGAAGGAGTG AATGC	135
	(2) INFORMATION FOR SEQ ID NO: 2144:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2144:	
	TTTTAAGGTT TGAAGAAAA AAGTTTTAAA AATTCAAGGA AACATTAAAT TAATTTA	57
25	(2) INFORMATION FOR SEQ ID NO: 2145:	
	(i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2145:	
	TTTCGAAAGT TTGATAGTCC ACCTTACATT CTCCTACTAT TTTCTGATGT CCCAATACTT	60
	TATATTATTT AAAGTAATAT AAAAGCAATC TCTTTTGAAG ACATGTTAAC CTAAATATTT	120
40	TTATATATAA TATATATATA AAATATAn	148
	(2) INFORMATION FOR SEQ ID NO: 2146:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2146:	
	GTTAATACAA TACGGTTAAC AGCACCTTTA CGnTAGTTGC TTTnCTGCAn	50
55		

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2147:	
	AATCCCCTCT TTTCTCTATT TCCTAAATCA TAGAACTTTT AACAGTAAAA TTCAATCATT	60
	AATACATG	68
15	(2) INFORMATION FOR SEQ ID NO: 2148:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 92 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2148:	
25	AGGTCCATTT GTAATTTATA ATGTTGACTA ATAACATCTA CAGAATTTAA CGTTCCCATA	60
	CCTCGCCACT GATTGTAAAT AAACAAACCA TA	92
30	(2) INFORMATION FOR SEQ ID NO: 2149:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 69 base pairs (B) TYPE: nucleic acid	
35	<pre>(C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2149:	
40	ACCATCCATT AAATCAGGAT CTTCACTAAT AAGTGCTAAA TTAGCAGCGC CACGTTTAAC	60
	GTAATCCAT	69
	(2) INFORMATION FOR SEQ ID NO: 2150:	
45	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 384 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(b) Israbot. Ilmax	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2150:	

	TCAAAATATA TACGATCACC TTTCTGTAAA ATCACACTAT TTTTATTTGC CGCTTCTGGA	120
_	TGTTGTTTAA AAAATTGTTG GCCAACTTCA CCTTTTAACG TGGCAAATTG ATAATTTCTT	180
5	GGTAGGTCAT GTTGAATTAA CCAAATGACA TAGTTATAAC AATATATACA GTTTCCATCA	240
	TAATATACGA TTGGCATAAT TTATTCGCTC CTTTAATAGT ACTTATAGTC ATTTTTCCTA	300
10	ATTTAAAAAC ATTTAAACAA GGTTGTCACT TGATAAGTCC TCGCGACACG AAATTGCCAT	360
	AAAATTTATT TTTCAGnTTn ATAT	384
	(2) INFORMATION FOR SEQ ID NO: 2151:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2151:	
25	TGTTGTTTAT CACTATATT TAAAAATAGT CTATAAGGCT TATCAGATGA AGTAGCTGCT	60
	GGCGTAACAC CACCAGTAAA TGT	83
	(2) INFORMATION FOR SEQ ID NO: 2152:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2152:	
40	GTATTCGTAC ATTTTCAGC AATTAACCAA GATGGTTACA AATCATTAGA AGAAGGTCAA	60
	GCTGTTGAGT TTA	73
	(2) INFORMATION FOR SEQ ID NO: 2153:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2153:	
	CCCCCTCCC CCCTCCCCnc CCCCCCCCC CCCCCCCCC GCCCCCCCC	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2154:	
	TATTTTAGGC TTAGCATTGA TGATGTTGCT CATTTTCAAT AATATAGGAA TTATT	55
	(2) INFORMATION FOR SEQ ID NO: 2155:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2155:	
25	ATGCTTGCTG ATATAATGTA ATAGCGTCGT GATAACGTTG CTGGCTTATA ATATACATTT	60
	GCGAGATT	68
	(2) INFORMATION FOR SEQ ID NO: 2156:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2156:	
40	TAATCTTTGT CGTCGAAATA CAAACTAACT TTTGAGTTTA ATGATGAAGG TACGCATTGT	60
	GTATCACT	68
	(2) INFORMATION FOR SEQ ID NO: 2157:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2157:	
	TCATTCATTT TCCTCTTTTC TTTTATTTAA AATGTTCATG GTTGTTTCTC TTAATTCTGT	60

	AGATGCTAAA TGGTCAAATT GAATAATTGT TTCTAGACTC ATTTCATAAA TTTCGAAAAA	180
	TAATTCTTCG GGATTACGTT TTTGTATTTC TCCAAATGTT TCATAAAGCA AATCAATTTT	240
5	ATCAGCAACT GAAAGTATTT GGCCTTCTAA TGAATCATCT TTACCTTCTT GCAGTCGTTG	300
	CTTATAAACA TCTCTATATT GTAATGGAAT TTCTTCTTCA ATAAAGGTCT CTACCATTTC	360
10	TTCTTCAACT TGCGAAAATA ATTTTnnTAA TTCACTACTC	400
	(2) INFORMATION FOR SEQ ID NO: 2158:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 232 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2158:	
	TATTTTTTC TTCTAGGCAG TGTTAATACT GCTTCAATTT GTTTTTTACT AAATTGATAT	60
	TTCTCTATGA TTGAATTAAT CAATTGATTG TCCATTTACT TAACCCACAC TTTTTCTTAA	120
25	ATTTACTCAT TTATTTTAAC ATATTCTAAA ATACTTCTAT TAAGATATGA TACTTAATGT	180
	AATTTTCACT TCCAAAACAT TTAAAACGAA TGATTAGGnC ATACTATATT nT	232
30	(2) INFORMATION FOR SEQ ID NO: 2159:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2159:	
40	CCGTTTTTCC AAAAACTTGA TCATAAACCC GCTCCTTTTT TCATCATAAC AAAATAAGAA	60
	(2) INFORMATION FOR SEQ ID NO: 2160:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2160:	
	CGATTTACTG CACGACACAT TGCCACATCC TGGATGGGCA ATCTTTTCTC TTACCCGTCT	60

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2161:	
.0	ATTAGTTGAA GTTTTTGAGC AATTGAAAGA TATTCAGGGT CAAATAAAAA CGACAAAAAA	60
	AGAATATCAA CAGACCAACA AAGAACTTTC TGCTGTAGAT AAAGAAATTA GAAATATAGA	120
15	AAAAGACCTC AnTGATACAA AAAAAGCACA AAATGAATAC GAAGAGAAAT TGTATCAAGC	180
	ATATCGATAT ACCGAAAAAA TGAAAACACG TATTGATAGT TTGGCAACGC AAGAGGAAGA	240
	ATATACTTAT TTTTTCAATG GCGTCAAACA TATTTTGAAA GCTAAAAATA AAGAATTAAA	300
20	GGGTATTTAT GGTGCAGTTG CGGAAATTAT TGATGTGCCA TCTAAATTAA CTCAGGCAAT	360
	TGAAACAGCA TTAGGTGCTT CATTACNACA TGTCATTGNA	400
25	(2) INFORMATION FOR SEQ ID NO: 2162:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2162:	
35	GTGCGTACCA TTGTAATCTT CGTAAACTGG GTAATTATTT TGTCTTTCTT CATCATAAAG	60
	TAATAA	66
	(2) INFORMATION FOR SEQ ID NO: 2163:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2163:	
50	AGAATGGTAA CATGGTAATA ATAAAATATA AACAGAATAC TAGTTAATAC ACTTTATACT	6
	AGAAAAGAT AT	73
	(2) INFORMATION FOR SEQ ID NO: 2164:	

5	(A) LENGTH: 325 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2164:	
10	CGATAATCTG TTTTTTAAA TCTGTTGCTG TTAGATTTAG CACCGATTCG TTTAACTTCA	60
	AATAATTTT ATTACCTTTG GAAGAAGTG GAACTATTGT AACTGTTTCT TTTCCTTTAT	120
	TGTCTTTGTT ATCTAATATT ACACAAAAAT GATTACCAGA AAACTCACTT CCAATATTAC	180
15	TCCCTAGTTT TACATATACC ACTGTTCCTC TACHATATGA TTTATAATAT CTTTHTTTAT	240
	TGCTTGTAAC ATCGCTATGT ATAGCAATTG GAATAAAACT CTAGCCAATG AGGCATGTnT	300
	ATAACTTTCA TGTTTTACT GTCGG	325
20	(2) INFORMATION FOR SEQ ID NO: 2165:	-
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2165:	
	TAAACCCCTT TTGGGTAAAA AAGTTTGGGA AAATTTCCCC GGGGGGAAAG GCCCCCAAAA	60
	AATTGTGCCC CTCCnCGGGG GAAAATTAAA ATTTCCCCCC TTTTAAAAGG GTTTCCCCTT	120
·35	Ŧ	121
	(2) INFORMATION FOR SEQ ID NO: 2166:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2166:	
	CGGACAGTTA AATGAACTGT TCAATGAGCC CAGGATGTTG TAAATGGTTC GG	52
50	(2) INFORMATION FOR SEQ ID NO: 2167:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	10) SIGNIDDINIDGS. GOWLE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2167:	
5	ATTACAGTAA AAAATGGATT AACATTACAA GCGTGTCTTG CTAGAGCAGC CAA	53
5	(2) INFORMATION FOR SEQ ID NO: 2168:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2168:	
	AAAGATTATT TATTTGCAGT CATTAATTGT GATTTAATAC GGTCAGCTTT GTTTGAATGT	60
	ATTAAATTAC nTTGAGCAGC TTTGTCTACT AACTTAACTG CTAAGCTTAC TAAT	114
20	(2) INFORMATION FOR SEQ ID NO: 2169:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2169:	
30	AAGGAACCCC CCCCCTTAA AATTTTTGGT GGTTTTAAAA AATTCCTTTG GATTTATTAC	60
	CTTTATTCCT ATMATTTTCC GTTTGGATTT TCCTGGATTA AATTTCCCCA TTAAGCCATT	120
35	TCCGCTTCCC TTATTTTATn ATTTTCCAAA ATTTCCAAAG GTTCCATTTG GGATTTTGGC	180
	AATCCTTTT TATTAAAATG GCCTAAAAAT TTTTT	215
	(2) INFORMATION FOR SEQ ID NO: 2170:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 114 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(C) 10001111 - 10001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2170:	
50	TATCGTTTTT AGAAATGGAT GTTCTCTCCA AAGATGATGG TATCTAACAT TATCTTATTG	60
	GTATCATTAT GCAACCNTTA CAAAACATTT ACGCAAGATG ATACATTATC CAAC	114

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2171:	
	ATCACAGATG AGATAACAGA TCCACTGTAA CTTTACAATA AATAAATGGT ATCATAATTA	60
	ACACGTAAAT GGTTTC	76
15	(2) INFORMATION FOR SEQ ID NO: 2172:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2172:	
	ATTATCACAA AATGTTGACA CGCAAAAAGT TGGTCAGTTA TCAATATGGT ATATAAATCT	60
	GAGA	64
30	(2) INFORMATION FOR SEQ ID NO: 2173:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	•
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2173:	
40	AAAGGCCAAC CAACCAAAGG CCAAAATTAA CCGGCCAATT CCAAGGGGTT AATTAAACCC	60
	G	61
	(2) INFORMATION FOR SEQ ID NO: 2174:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2174:	

	CACCCCGCAC TCTCCCATCT TTTACCTACT GGCTTCTTTG CATTGCCCTG GCACCTCCGT	120
	CCTCAGCCTC CCAGGCTGTA TTCATTCATT CCCTTACTGA GCACGCACCA TACACCAAGC	180
5	ACCATTCAAG GTGAACCAGT CAAATGAAGG CCTGGCTCAT TTTAATGGGG GACAATGAGC	240
	ATTTTTGTTA CAATTTCATG GAGTGATGAG TGCTGTGAAG AACTAAACAG GTCAGGTGTA	300
10	AGTGGCTCAT GCCTGTAATC TCAGCACTTT GGGAnGCCGA AGCAAGTGGA TCATTTAAGC	360
	CCAAGAGTCA AGACCAGCCT GGGGnnACAT AGTGAGAnTC	400
	(2) INFORMATION FOR SEQ ID NO: 2175:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(with appropriate percentage and the No. 2175	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2175:	60
25	ATATCGTTTA AACCATCAAC AAGATTTTAT AGATGCAACT TTTACTGCGC TGAAATCAGA	
	TAGAGCACGT TTAAAAGAAG TGCCAGTTCA TGTTGAACTT ATAAGTTATA TTTCTAAATC AAAATAAACT GCTATCTAAA ACGCAAAGTT GATCAAAATA TCGATTTTGT GTTTTTTATT	120
		240
30	GAGAAATTAT ATAGGAGTGT CAATCGATGA TTTATTGTGA ACAGAGCGTT TAATATTAAG AGACTGGCAT GAAGATGATC TGTTACCTTT TCAAAAAATG AATGCGAATT ATGACGTACG	300
	TAAATATTTT CCAAGTTTAT TGAGTTANCG NCGTTCAGAA TTAGATATGA GACCTATGGA	360
35	TGCGGTTATH AAAGATTATG GCCATTGGGA TTATTGCCNG	400
	(2) INFORMATION FOR SEQ ID NO: 2176:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2176:	
	TAAATCAAGG AAAGACATTT TAAGGTACGA AGGTTGATAA CAAAAAACCA ACAGATTTAG	60
50	GGGTATCAGA G	71
•	(2) INFORMATION FOR SEQ ID NO: 2177:	•
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2177:	
	GTTGAATTAG GCAGCACGAT TATTGATGCT GAACTGTTAG AGTCAGATAA G	51
10	(2) INFORMATION FOR SEQ ID NO: 2178:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2178:	
	TTAATTAATG GTATTTACAT ATTCATAACC AAAGGATAAA ATAATTGTGA AATTATTCAC	60
	A	61
25	(2) INFORMATION FOR SEQ ID NO: 2179:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2179: CATTTTACCA TGCAGCAAAT AATACAGGTG GTGCCGTTAA CAAACGTGAn	50
	(2) INFORMATION FOR SEQ ID NO: 2180:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2180:	
	GCCGAACGAA TCAAATACCA TACCTAATTG ACTGCAGGCA TGTCCATATA GTGCAGTTAA	. 60
50	CTGTCTACAA GGC	73
	(2) INFORMATION FOR SEQ ID NO: 2181:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2181:	
	TACTTTTGGC GATATTCGGT ATCGTTATTA CAGTTATTTT ATATGCAATT AAATTGCCGG	60
10	GITCTATCIT TATCGGTATG ATCATCACAG CAATCGTTGG TATGTTCACT GGATTGATTC	120
10	AAATGCCATC TGGTATTGTG GGTAAGATTC CAAGTATTGA ACCAACGTTC GGTGCTGCAT	180
	TTGAAGCGTI TAAAGACCCA AGTCAATTAT TAACGATACA GTTCTTAATT GTTATTTTAA	240
15	CGTTCTTATT TATTGATTTC TTTGATACAG CTGGAACATT AGAAGCGGTT GCAnCnCAnG	.300
	c	301
20	(2) INFORMATION FOR SEQ ID NO: 2182:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2182: TTGATTCGCC TTGGCCAGAA TTACTTTTGT TTTGGGCGTC ATTGCAAGTT TCTA	54
35	(2) INFORMATION FOR SEQ ID NO: 2183: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2183:	
	TTAGTHACAT TGGGACATTT AACTGATCCA CCAGTACTTT TGGCGATATT CGGTATCGTT	60
45	ATTACGTTAT TATTGCATAA TGCGGTCACT ACGAGACACC GCACTGAGTC CGATATCA	118
	(2) INFORMATION FOR SEQ ID NO: 2184:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 303 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

	AGATAGTTAT ATAAAGATTT CATCTTCTGT ATTACATTGA TATTTTTAGG TCCCTGTATA	, 60
	TAAAAATCAT ATGCCTCATC AACAACATCA CTTTTATTTT TGATTGCAAT TTGATGTAAT	120
5	ATCTTTTGAC TAAAAACACG ATTAATCATA TTTCTATTAT CCATAGCTAC GCACCTCCTT	180
	CAACATACAT TTAATGCTTA TCCTGTTAAT ATTATAAnCn ATTTTAAATG CCTATAGACA	240
10	TTATTTCTAT ACACATACGA TTATHAAATT GTATTGAAAC CAAATGATGG TTGCCAAACA	300
	CAT	303
	(2) INFORMATION FOR SEQ ID NO: 2185:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2185:	
25	CCGGGGTTTT GGTTAAACCC TCCCAAnATT TTTTTTAAGC CCAAACCTTG GAAAAACCCA	60
20	GGCCACCCGT TGGAATTTTT AAGCCTTGGA TTAATCCGGT TTGGTTAACC	110
	(2) INFORMATION FOR SEQ ID NO: 2186:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2186:	
40	CCTATATTGT CACCCAACTT CATTACGGCA CCTTTACCGA AAGATTTCTC CATATTTTTA	60
70	ATTACTGTAT CTAAAGCTTT TTGACG	86
	(2) INFORMATION FOR SEQ ID NO: 2187:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2187:	
	TTTGCTAGAA AACATACCAC ATTTGCCAAT TATATTATTT ATTCTGATGT TTATTTTCGG	60

	TATTTAGAGG TGATAAAATT TGTCAACTAT TACAAAGACT AAAATAAAAA TCTTTATTAA	180
	TTATTTTATT GGTATATTAG CCTTGGCGTT TGCTGCTTAT ATATTATTTA AATAAAGGTT	240
5	AGAGTGAAAC GTGTTTATGA ACTAGACGTT CTAGTATAGT TACTACAGCT TTAGTCAGAA	300
	GGTATCATTG ATAAGATCAT ATTAAATCAA AGAGGCATTG ATATACACTA AAAAGAGGCA	360
	AGATTACCTG CCTCTTTTTA GTmATTAAAT ATACGTGTTA	400
10	(2) INFORMATION FOR SEQ ID NO: 2188:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2188:	
	TTTTATAAAA TATCAGACAT TTTTGnTCAA CATACATCTC TTTCGATGTT TCTAATACTT	60
	TATCATTAAC CATTACACCT TAAAGTTATG ATGTGGCATG TTTTCTTATA TTCATAACAT	120
25	CAATTTATC A	131
	(2) INFORMATION FOR SEQ ID NO: 2189:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2189:	
	CGTAAAATAT TTTGATTTAA AATGGAGGGT ATTAATATGA AAAGGTTCAT GTAAAATCTA	60
40	GGGGTATTCC AATATTATAA GGCAC	85
	(2) INFORMATION FOR SEQ ID NO: 2190:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2190:	
		60
	CCCGAGGAAT ACATGGCATT AAATACACGT TTAATATTTA TAAAGGTGAC TTAATTTTGT	0.

	ATAATTGTTT ATCAGTGATA AAATATTTGC AATAAGAAGA GAATGACTAA ATAATCTTAA	180
	TTTTCAGANA AGTAATTGTA ACCTTACTGG TCTTATGGTA ATAN	224
5	(2) INFORMATION FOR SEQ ID NO: 2191:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2191:	
	AGCTTTTGTA GTTTTCTTAA GCACACCGGC GATTTGATTA TTACATAAAG GATTCCCTTT	60
	TTTTGTTGTG AATATGAACC CTCTGTCAAC ATAGCTCGAA TTCCATCTTT TCAACATTTT	120
20	GTTTTCCAGT ATTATCTTTT TAAAAATTTC TACGGTTCTA GAATTGATGC TGATACTTCT	180
	TTTTGAACTT ATAGTCTTTG TAGTGTCTTT GTATCCGAAT CCTTTCTCGT ATTTAATGCG	240
	GTGAATTGTA CCTGTTATAT TGATAGTnTT GTTTAATAAA TCTATATCTT TTTCCTGCAG	300
25	TGCTTGTAGT TCTCCTATGC GCATACCAGT TAAAGCCTGT ACTTCTAAGA TGCTGGCAAT	360
	TAAAATGCGA TTTCGCTTTT GTAACTTATT ATCATTTAGT	400
30	(2) INFORMATION FOR SEQ ID NO: 2192:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2192:	
40	GACGACTGAG AGGCCGTTGA ATTTGACGTT GCCATATnTT CAAATTTAAC	50
	(2) INFORMATION FOR SEQ ID NO: 2193:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2193:	
	GTTGTTTCA TATCAAAACA CCGTAGAATA AACAATGAAT GGAATTACTT TTGCAATGAT	60
<i>55</i>		

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2194:	
10	CCAGTCACTG ACTACGTCTT CCTCGGTGCT GGCGGTGGAG CCATTCCCTT ATTACC	56
	(2) INFORMATION FOR SEQ ID NO: 2195:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2195:	
	GTAGGGAAAG GAAAAACTGC TTCCATTGGG AAATGTTAAA CCTTGTTCCT TGGTGATGCC	60
25	ATTGGATTT	69
	(2) INFORMATION FOR SEQ ID NO: 2196:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2196:	
	ATATGACACT ATATTTATA AACATACATT TAATGATTCA TTATACAATT GCCAA	55
40	(2) INFORMATION FOR SEQ ID NO: 2197:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2197:	
50	GCCCTAGTTC AATCATATAA CCATCTTTAC GATACGATTG AATCTTTCCC CCCGGACGAT	60
	TCGATGCTTC A	71

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2198: AGTAGCACAA CAGCCATGCG GAGACAGAGA ATCGTTAGAG ATTAATGGAG ATCA	54
	(2) INFORMATION FOR SEQ ID NO: 2199:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2199:	
	GGCGGTTTTA TATTTATCGT TGCAGTTATG CAAATTGTAC TTGGTAGAAG TATAGATTCT	60
25	GGCGGTTTTA TATTTATCGT TGCAGTTATG CAAATTGTAC TTGGTAGAAG TATAGATTCT	
20	CGTGATTCGA AAAAAGTACT TTTAACGGGA TTGGGAATAG TAATCATATC TAGCTTTATT	120
	TGTGCAGTGA CACATAACTT TATATTATTT GCTATATCAA GGTTATTTCA AGCAATTGGT	180
	TGCGGAATTA TTCCTCTCGT GACTTTAACT TTATTAGCCA AACTAAGTAC AGATAATGGT	240
30	AGAGCTCAAG CTATGGCGAA CTATCAAATA TTTTTATCAT GTGCACCAGC TTTGGCACCA	300
	ATCTTAGGGA GTACTTTAGG TGGCAAGATG GGGATATATT GGTATTTTAG TTTTTTGGCT	360
	CGTTATATCT ATCGGTATTA TTTTTGGATA nCTnTnTTAA	400
35	(2) INFORMATION FOR SEQ ID NO: 2200:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2200:	
	GGATATGCGA TGGATGACGC ATTGCTATAT CGGCAATTGn GAAGCTGCTG	50
50	(2) INFORMATION FOR SEQ ID NO: 2201:	
<i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2201:	
	ATCGAATATC ACTACTATCT CTnTTnAAGT ATCTACAATC TCTCCAATCT	50
5	(2) INFORMATION FOR SEQ ID NO: 2202:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2202:	
	TCGACAATCC TAATGCAATT GCTTCATGTG GnTGTGGTAG TTCATATTAG AACTGCAAAA	60
	GTTGCAGGTG ATCCTGAAAA TTGCTAATAA AATAACTTTT TAATGGTTAA CCCAATTTTT	120
20	GGGATACAAA TTGATATCAA TAACGATTAA GGACATATTT GATTATGTCC TATTTTTGCG	180
	TAAAGATATT TTGTTTTATT AAAAAGCTTA TTGAAAATTA AGAATCTGAC TATAAATAGT	240
	ATTTTAAATG ATCGTGATAG CGGATACATT TTTAATCGAA ATCAGGCTAC GAAAAAATTA	300
25	ATTAATTTT TCACAATCTG ACTGAATCTT GCTTGAAAAT ATAACATAAA AGCTATAGAA	360
	TTAGTATTGG ATTAAAAATG TCTTTTTGT GAACATCACA	400
30	(2) INFORMATION FOR SEQ ID NO: 2203:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	· .	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2203:	
40	GCGTTGTCCT TTTCGTGACA TGAAACAATG TGGAAAACAT AATTAAATnn AGGGAAAGTG	60
	TGAATAGTTA AAAAATTAGT ATTGTGTTAT AAAAAATAAT TAATACTGTT AGGATTTCAT	120
	TAACTAACTT AACGTTGGTT CAAAAATAGT TAAAAAAGAGG TTAATTCATA GCGCAGTATC	180
45	TCACTTATAT AATGATAGTA GATTGTTCGT ATTACGTAAT TGAATTAATC ATATAAAAAT	240
	ATATTAAGAC AAATTTATAA ATAGATTGGG AGANTAGTAC TGTGAAATTA AAAACGTTAG	300
50	CTAAAGCAAC ATTGGCATTA GGCTTATTAA CTACTGGTGT GATTACATCA GAAGGCCAAG	360
50	CAGTTCAAGC AAAAGAAAAG CAAGAGGGNG TACCACCATT	400

(i) SEQUENCE CHARACTERISTICS:

55

5	(A) LENGTH: 136 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2204:	
10	GTTATTTTGT ATGGTTAGTC TTTAAAATAN ATATAGATAT TAAATATTTA TTTTACGAAT	60
	TGTTAAGTAA AGAAAAAATA TTAATCAATC CGGGTTACAT TTATGGCAGT AAAGAAAAGA	120
15	GTATAAGGCT ATCTTT	136
	(2) INFORMATION FOR SEQ ID NO: 2205:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2205:	
	TTTTATTTT TCGCAATGAA AAACAATCTT TCTGCATCTT CATTATGTTC ATCTATATTA	60
	AAATCAGTAA ATGTTTCAAC ATGTTTAAAA CCAACTTGAG CTAACCAAGA CAAATATGTC	120
30	TTTTCATCAA ATGTTCTCTG AAAATGAGAC TCATCAAATC TTGAATATGT TTCATCTTCA	180
	TGTCGAATGA AAAATGTCAT ATCATGATAA ACACTTAAAG GTAAATCTCC TTGCACAGCA	240
35	TCCCATGCTA AAAAAATGTC CCCTTTATCA TCAATATAAC TTTGATTATT AAACAAAGTC	300
	ATCATTITAT AAACAGTATG TACATCAGAA ATAAATACAC CTGAATCAGT CAGATGATGA	360
	TAAACATTGA TGAATGTTTC AATCACTGCA GTTTCATCTT	400
40	(2) INFORMATION FOR SEQ ID NO: 2206:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2206:	
50	TTGAATATCA TATAAAAACA TCAGGTTCAA AGTTGACTAC TCTTAATAAT ATAAAAATAA	60
	GAATTAAAAA CATTAAACGA TACTGCTCTG AGAACTTGCT TTTAAACAAA CTTGATACAA	120

	GTCAACTCGG AGATATGAAA GGAGCHATTA AATATGCAGT TAAATTTTAC AATTATCCAA	240
	ATGAATATTT GTTAACTAAT GTCAAAATTC CTAAAAGAAG AMAAACAATA GAGGATATCG	300
5	AAAAAGATGA ATCTAAAATG GTACCACTAT TTAGAAATGG AACCAAGTCC TACNGATACG	360
	TGATCATATA CTAATGGAT	379
	(2) INFORMATION FOR SEQ ID NO: 2207:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2207:	
20	CATCTTGGGA CGTTTTAAAA AGTAACGTAG CGAAGACTAT TGGAACAACA ATGAGAACCA	60
	ATGCTAGAAG GATCAAAAAG TATTTTAAAA ATTTATTCAT GATTGATGCT CCTATATTAA	120
	ATTTNTGTTA AATCATA	137
25	(2) INFORMATION FOR SEQ ID NO: 2208:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2208:	
35	GCGCCGCTCT GTTCATTTTA CCTAAATCCA ACGTTTCAGG AATAGATGTT TTCAAACCAC	60
	TTTGAAATGG AT	72
40	(2) INFORMATION FOR SEQ ID NO: 2209:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2209:	
50	ATGTAGCAAC TAAAGATGAT AGTGGATAGC GACACGGTCA ATAAACTGCC TA	52
	(2) INFORMATION FOR SEQ ID NO: 2210:	

5	(A) LENGTH: 206 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2210:	
10	TTTTTTATGT TCTTTTTAA TAAGAGGGAA GTGAAGTTGT ATAAAAATGT ATTAAATATG	60
	CACTTTTTAT ACATTAACGA TTCATATATG TCTATTATGT ACCAAATTTA TAATTTGTAT	120
	AATTTTCGAA CTGGTTAAAT TCGAAAAATA TCACTAATAT ATnTAGATCG ATGTGTAACA	180
15	TTACGTTCTA nTAATTTAAT GTTGCA	206
	(2) INFORMATION FOR SEQ ID NO: 2211:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2211:	
	ACGATGTATT TTGATATCGT TACCAAAGTC TTTTAATAAC TCATTTTCAT CTAAATAAAT	60
30	(2) INFORMATION FOR SEQ ID NO: 2212:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2212:	
40	TGATAAGGTT TGTCCCATCG CTATTTGAAA TGATGCATTG TAAAAAACTA TCATTTGTTG	60
	GTAATATCTT AGTTCGATGA CTTTCTTTCC AATCTTTCCG TGTCATAGAG ACAAGATTTT	120
45	TTGTAGCTAT CTTAGTTGCT TCTTGAATGT TCATTTGTTA TTCCTCCTTT TAAGATGTTT	180
73	GTnTTTCTTT AAATGCTAAA ATAATTGATT TCTTTTTATC ATTCGTGAAT ACGAAATTTT	240
	CGTATTCATT ACCTAAAAAA ATATCATCAT ATTTAACATT AAAAGCACTC ATATACTTAG	300
50	AAAGTAAACT AACNTTAATG GNTGTAGAGT C	331
	(2) INFORMATION FOR SEQ ID NO: 2213:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs	
55	• ==	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2213:	
	AGCATAAACC AAAAGATGCG GATATACTTG AACGCGTCAA AGATATACTT AATAAAAAAG	60
10	A	61
	(2) INFORMATION FOR SEQ ID NO: 2214:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2214:	
	TCTATTTGAG TTTACATTTG ATTAAATGAA TGACAATTAT ATGAACCTGA CTTGGT	56
	(2) INFORMATION FOR SEQ ID NO: 2215:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2215:	
35	ATACCACTAC TATACAGTTA AATTAATATA CGTTAAAACT TTAATCCGAT ACATTGGTTA	60
	AAATGATGTT CCTCGCTGGT GGATCGAGAC ATACTTCGCT CTGACTTCTT TAGTCAGTTT	120
	TTTTTCAGCT TTTTAGGTGT AATCACTGAC TTTGTTACAT CACGTCAAAT TTACAGTCGC	180
40	TATTATCTTA ACTTATCNAC GCTTATCACA CATCAATTCA GATATTATAT TGCATTGGCG	240
	nctatcactt tgaacctgct gtgactggaa ctactggctg tcangagcga gggctgataa	300
	TGAGCATAAA GCAACATATA AGTAATACGG CCGAATATGT AAATTCGGCA GCTTTAGGCA	360
45	ATGCTGCCCG GGCATGACTA GNACATTCAC AAGAAGCTCA	400
	(2) INFORMATION FOR SEQ ID NO: 2216:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2216:	
	TTTTTAAAAA AGGGGTTAAC CAAAGTTTTG GAACCCCAAA AAATTCCGGA GTTAAAAAAA	6
5	CCCCAAAAAA TTAAATTAAC CGGTTATTCC GTTCCAGGAG CCAAATTTTT ATGGTTCCAA	120
	TTnCCAAAGT GGG	133
	(2) INFORMATION FOR SEQ ID NO: 2217:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2217:	
20	TACTCGTACC ATTAACCAGT CTGATTAACC ACAATACTAA GGTATTCAAT ACATCACTGA	60
	CATC	64
	(2) INFORMATION FOR SEQ ID NO: 2218:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 82 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2218:	
	TATTCTATAG AATATGGATA ACGTTTAACA TGATGTAGAG TATTCATCAT TGTAACACGT	60
35	CAATTTGATA TGTGAGATTA AC	82
	(2) INFORMATION FOR SEQ ID NO: 2219:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2219:	
	TTTGACGCAA TGATTTAGCT GTAAATATGC AATCTAAAGG AAAGTACCAC TTATGAGATG	60
50	TATTAAAACG	70
	(2) INFORMATION FOR SEQ ID NO: 2220:	

(A) LENGTH: 66 base pairs

5	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2220:	
10	AAAAATTACC CCAAAGAATT GAAAATTTGT TGTTTGGGTT ACCGGGTTTA AGATTAATCC	60
	GGTTGA	66
	(2) INFORMATION FOR SEQ ID NO: 2221:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2221:	
	GATCGCAACC AAAATAATGG TCTTCCTGGA TTATTACTTT ACCAGCTGGC ATAC	54
25	(2) INFORMATION FOR SEQ ID NO: 2222:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2222:	
	GTGTTGCTAC AGCTANCATT TCATATTTAA CGNGTTGTGG TATTTCTAAA	50
	(2) INFORMATION FOR SEQ ID NO: 2223:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	\cdot	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2223:	
	AATGGGGGNA CCCAGCNTGA GTTATGTCAT CATATCGGTA TGTGATACAT	50
50	(2) INFORMATION FOR SEQ ID NO: 2224:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	

2180

(C) STRANDEDNESS: double

	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2224:	
		_
	GTAGATGCGC CCTCATATGG ACAAAGATAA AGTATCAGCA GATTGGACGC TTTA	5
10	(2) INFORMATION FOR SEQ ID NO: 2225:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(b) Totoboot. Timedi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2225:	
20	CGAGACTICA CTITGACTAA ACGCGTTAAG AATTTAGATT ATGCTTACGA TGAAGAAGAA	60
	TTA	63
	(2) INFORMATION FOR SEQ ID NO: 2226:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2226:	
35	TGGCCATTTT TAATGGGGGG AAACCTTAAA AAGGGGTTTT TAATTTTAAA CCAAG	59
	(2) INFORMATION FOR SEQ ID NO: 2227:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2227:	
	TCCATTTGGT TGCCTTCTTT AAATAAACCT TGGATTATGC CTTTCCTCCG GTTAATTAAT	60
	GGGACCAGGG GCCAAAAATA CCCCCTTTTA AATATAAATT CCCAAAATCC ATAGTTAAAT	120
50	AATCCATTTG C	133
	(2) INFORMATION FOR SEQ ID NO: 2228:	

2181

5	(A) LENGTH: 350 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2228:	
10	CCATCTGTGC TTCGTTAGGC GCTTTCGGCA TCACGGTGAT GGTTTGCGAC AGATCCGCCA	60
	TCCGGCTGAA TGGGAAGCCC GCGTTANAAA GGCGCGTAGA TCCGGCATCG GGATGAAGTG	120
	GTAATACTTC GAGAAGTCGA TGGTGGAGTC GTCACCAATC ACCACATGAT TCTGCACCGG	180
15	CTGGAAGGTA ATACAGTTAT CCACCGAACC GCCCGGCATC GGGTTCATAT ACTCAAAGTC	240
	GAAGCGCACT GGnTTTGGTC GCGCCCAGTT TCAGCGCCGG AATAGAGACA TCTGTTTTGC	300
	CATCCAGCAA ACCTTGTAAT ACCGGANTCC GCAGCAGCAG GCGGTTTCGC	350
20	(2) INFORMATION FOR SEQ ID NO: 2229:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2229: AACTAAAAAT ACTATATAAA AAAGGTTGTT ATAATTTAAT GGATATAAAT AAAAACGA	. 58
	(2) INFORMATION FOR SEQ ID NO: 2230:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2230:	
	GGGCGAAAGC TGGACGGAGC CAACGTCGCG TGAGTGGATG GAAGGTTCTT	50
45	(2) INFORMATION FOR SEQ ID NO: 2231:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AGCCATACGT GGTAAGCACA TGCTAAATTT GCCAGCCTGA AAATGTTTAG	50
	(2) INFORMATION FOR SEQ ID NO: 2232:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 132 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2232:	
15	TGTATCATTT TGGCAAAATC ATAATCTTTA TCGTCGAATA CAACTACTTT TAAGTTTAAT	60
	GATGAAGGTA CGCATTGTGT AATCACTTCA TCTAACTTTT TTAAATCAGG TGTCATAGTT	120
	GAACTTGGnG GT	132
20	(2) INFORMATION FOR SEQ ID NO: 2233:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2233:	
	GATCTTGAAG CAGTTGAAAC ATATGTATCA GATGCATTAA GACAAGTACA CTTACAATCA	60
	GACATTTTTG CTGTATCA	78
35	(2) INFORMATION FOR SEQ ID NO: 2234: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2234:	
45	TTTAGGCACA GACGGTAATA AGCTACAATT TTCATAAAAT CATCTCCTTn	50
	(2) INFORMATION FOR SEQ ID NO: 2235:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2235:	
	ATCCTGGAAA ATCTGGTAAG ATATCTTGGA AATAACTAAT ACCAATTCCT AAAA	54
5	(2) INFORMATION FOR SEQ ID NO: 2236:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2236:	54
	GGGTGATGGT CATTGACAAA GTCAACTTGT GATAAGCCAT GGATATTTTT CGTT	34
	(2) INFORMATION FOR SEQ ID NO: 2237:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2237:	
	TTATTTACTT TAAATTTCTC AATCTACAGT GTAATCTTAT TTCTTATTAT	50
30	(2) INFORMATION FOR SEQ ID NO: 2238:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2238:	
	CCTTAATGGG TTTTGGGGGG GGGCCCCCC GGCCCAAAAC CTTTGGCCCA ATTGGTTCCT	60
	GGGTTAAGGA AAAA	74
45	(2) INFORMATION FOR SEQ ID NO: 2239:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CCACCCATGG CGCTTGACAA AATATGGATG GAACATAACC ACACCGTCCA AGTTCACTGT	60	
	TAGCACCGTG T	71	
5	(2) INFORMATION FOR SEQ ID NO: 2240:		
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2240:		
	CAGCTAGGTA GTTAGGGATT CGACTCGTAA AACGGATTAA TAGGTTTTAT AAGAAGGGGG	60	
	TTTG	64	
20	(2) INFORMATION FOR SEQ ID NO: 2241:		
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 		
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2241: CTTGACACGT ACATCTAATA CGACAGTCTG TGCGTTTAAA ACCTTTTGGG TCAAACTG	58	
	(2) INFORMATION FOR SEQ ID NO: 2242:		
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
			40
(xi) SEQU	JENCE DESCRIPTION: SEQ ID NO: 2242:		
SACTCATCAC CG	TTGTTAA GANATACAAT TTATTACCCA GCANTTAACA 50		
(2) INFORMATIO	ON FOR SEQ ID NO: 2243:		45
(A) (B) (C)	ENCE CHARACTERISTICS: LENGTH: 71 base pairs TYPE: nucleic acid STRANDEDNESS: double TOPOLOGY: linear		50

	AAATTTGGAT TGGTTGGAAA TTTACAGTTA AAATTTAAAG GGTGGATGGA AAAATTTTAG	60
	GAACTTCTAA G	71
5	(2) INFORMATION FOR SEQ ID NO: 2244:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2244:	
	GGGGGCCCCT TGGGGGTTTG GGTTTTGGGG GGCCCCCCTT TTAAAAAnTT	50
	(2) INFORMATION FOR SEQ ID NO: 2245:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2245:	-
	TTATAATTTT TGAAAATAGA AGAGGGAAGC CTTAAATTAC CAAATGGATT TA	52
30	(2) INFORMATION FOR SEQ ID NO: 2246:	
3 5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2246:	
	ATTAGTTGAA AAGTACAATA TTCCGCAAGT TACCAATCGA TACAGGTATT ACAAG	55
	(2) INFORMATION FOR SEQ ID NO: 2247:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2247:	

(2) INFORMATION FOR SEQ ID NO: 2248:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2248:	
	GGGAAGGTAA AACTTCCTGC TTTTTTTATA AGTATTCATA CTCTATTGCT ATATTAGTAG	60
15	AAACCGTAAA ATCAGTCATT CACATACATT nTGAAACATC TAAATAG	107
	(2) INFORMATION FOR SEQ ID NO: 2249:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2249:	
	GTTGGATACC TGNAACTAAA TAACTATTCT TTAAAAGTTA AAAACCAACC ACTAGTGGCC	60
	ATTGGGGATT AAAATTCCAA CCTGGGCCGG TCCATCCCCA TGGTGGGTAA AATGGGGGAG	120
30	GGAAAATCCT TATTAGCCAA AGGATTCCTT ACCTAATAAT AGGGGGAA	168
	(2) INFORMATION FOR SEQ ID NO: 2250:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2250:	
	TTTAGTTGTG ACATACTGAG AACTGTAGTA CTTAGTGCNA TACCAAAGGG	50
45	(2) INFORMATION FOR SEQ ID NO: 2251:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GCAGAACATA CCACGTGTCG CTGATTACCA ATACAGTAGA TCAAGATGGA CTCGATTGC	59
	(2) INFORMATION FOR SEQ ID NO: 2252:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2252:	
15	GTTTGTGTTT TAATTTTAAG GGGAAGGGAT TTTTTTACCA AATGGGAATT TT	52
	(2) INFORMATION FOR SEQ ID NO: 2253:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs	
20	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2253:	
	AGTGTAATTA GAAAGGCAAG TACACCTGTT TAAAGTTTAT CTTCTAAGAT TTGTTTACTT	60
30	TAGAACTATA GCAGTTAATC	80
	(2) INFORMATION FOR SEQ ID NO: 2254:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2254:	
	GTAAATGACA GAGGAAATAT AACAATGATT AATAATGTTA CAGCATTTAC TGCAAATATC	60
45	TACTAT	66
	(2) INFORMATION FOR SEQ ID NO: 2255:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	ACATGTGTTA ACTCTTTGGC AATATATCCT GTTTCTTCTT CTAATTCACG	50
_	(2) INFORMATION FOR SEQ ID NO: 2256:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2256:	
15	AATCTTTAT AGGAAAGAAA GAAGAAGATG TTATCAGTTG CGATTATCGG CCCAGGCGCT	60
	GTCGGTACA	69
	(2) INFORMATION FOR SEQ ID NO: 2257:	
20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 64 base pairs (B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2257:	
30	TAGCGGGAGA TAGAAAAACC ATTCCGCATT AGCTTTGGTC AAGTTGGGAA TGGGTAAAAA	60
	AATA	64
	(2) INFORMATION FOR SEQ ID NO: 2258:	•
35	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 106 base pairs (B) TYPE: nucleic acid	•
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2258:	
45	GGTTAAGGTA TGGCGAAATA TCTCCAACAA CACTTCAAAA GGTTCAAGAA AATAGAAGTC	60
	GACTGAACAA TGTCATTCAC ATGTGTGCGT CATGCACACC nTATGT	106
	(2) INFORMATION FOR SEQ ID NO: 2259:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2259:	
	CGGAATAACT GACTATGTAT CATTTGATGT TATTAACATC AATATTTTTG GTTAAATGAT	60
5	ATGCTAGAAA TAAAGCATA	79
	(2) INFORMATION FOR SEQ ID NO: 2260:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2260:	
	GCTGGnTGTT AnTGGCAGAG CATGTGAGCT GGATAATCAG TTGGAGAGGC	50
20	(2) INFORMATION FOR SEQ ID NO: 2261:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2261:	50
	(2) INFORMATION FOR SEQ ID NO: 2262:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(b) 10POLOGY: linear	
	(wi) CHOMENCE DECORDED ON CO. TO NO. 2002	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2262:	
45	AATGAACCAC ATAATGACAA CTTGAATGAC AATATGAATA TGATGTCAAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2263:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	CATTAGGTGC TTATATAAAT TACTTTGTGG TGGCTCCAAA ACTTCGGGTT AAAAC	55
5	(2) INFORMATION FOR SEQ ID NO: 2264:	
Ū	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2264:	
15	TTTCnTCCCC CCCCGGGGT TTTTTGGTCC CTTTTTTTT TTAAATTTCC	50
	(2) INFORMATION FOR SEQ ID NO: 2265:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2265:	
	TCATTCATAG AGGTGTAAAG ACATAAGGGG AGCTTAACTG CGAGGACCTA CA	52
30	(2) INFORMATION FOR SEQ ID NO: 2266:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 55 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2266:	
	AGATGATGCA ATAATGGTGC AGTATAGAAG TACTGAGCAA TGCAAATTTT AGACG	55
	(2) INFORMATION FOR SEQ ID NO: 2267:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2267:	
55	GTTCATCACA TTTATTACAT TCAGCGTTGG AATCAGTACT GGGTTATCAT G	51

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2268:	
	CTGTTGACAA CAAATTAAAA ATGACAACAT GTCGTAGTTA TAGTTAATTG ATTG	54
	(2) INFORMATION FOR SEQ ID NO: 2269:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2269:	
	AACCAAAAG AAAGCAAGGT CAAGGAAATT TCAGCGRGAC GTATCTTTAG TTTTGAATAA	60
25	GCATATTAAT ATGGTGATAA TATGCAAGAn AACCTGTTTA TTCGATTCAA TGAAATTATA	120
	TTATTAATAT ACTTAATCAG TATCATTTGC TATTTTTATG ATTTTGTACA AAAAAGTCAT	180
30	AAGATTAGAA GTTTAGGCAT ATATTTATTG GGGATTGTTT GGGTTTTACA AACAATCTCT	240
	TTATCTATTT TTATTATACA AACTAGACAT ATTCCATTAG GGnCTATTTC AGATGTATTC	300
35	TATACTTTAA GT	312
33	(2) INFORMATION FOR SEQ ID NO: 2270:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2270:	
	GTTGATGGAT TCTCTTGGTT TGGTGTAGTC ACAATTTCTG AACTGGCCCT TGTTTACG	58
	(2) INFORMATION FOR SEQ ID NO: 2271:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2271:	
5	CGTTCAGACG CTAAATCAGG CACCAGGTTG TACAATTGTC CTGGTTCTTC	50
5	(2) INFORMATION FOR SEQ ID NO: 2272:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2272:	
	CAGGTGTTGG TAAAACATTT GAGATGCTTT CAAATGCCAT TGAACTATTT CAAAGTAA	58
20	(2) INFORMATION FOR SEQ ID NO: 2273:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2273:	•
30	TTATAAATTG GTGTAACAAT TTCATACACA TGATCATTCT TTGATTGAGG TAAAAATGAT	60
	TCTACTAAAC GTACACGTTT ATGCTTCTTA TATTCTTTCA TCAATAAATA TCTATGATTA	120
35	GCTAATGATA AATTTAGTAG AAGCTTGTTA TCTCCATAAA CTAAATTCAC GATATTAGGT	180
	ATATTGAATT GTTCTTGATA TTTCAAAAAT TGTTGATCCC ATTCTTCATT TTTAGGTAAA	240
	GGTAATACCA TCTCGTTAAT TTTCCAATAT GCTGGTTTAA GAATGACATT TTTATATCTG	300
40	ATTCGTGGTG AATAACTAAA TGAATCAATA CTCACATCAT TCATAGGTTC AATGCATTTC	360
	ACAGATTCCA TTGAAATTTC TCGTAACAAT CGATATNAAT	400
	(2) INFORMATION FOR SEQ ID NO: 2274:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2274:	
	GGGTACAAAT TTGTnGATGA TAGAAAAGTT CGTATCGCTA GAAAGTCTGG	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2275:	
	TGATTTACCA GTTGATTACG ACAAAGAAGA ATTTTCAAGA ATTGTTGAAG CATCAAAACG	60
	CATTA	65
15	(2) INFORMATION FOR SEQ ID NO: 2276:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2276:	
	ATGGCGTTCC ACCAGCAGTC AATAATCCTG TTGGGATAAA TGCCAATACT GTCGA	55
	(2) INFORMATION FOR SEQ ID NO: 2277:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2277:	
40	TAATAAATCA CGTGCATTTA CGCTCACTAG CTTTCATCTC CTCATTTTTG CTTTTCAAAT	60
40	TTATTAAGTA TGAATA	76
	(2) INFORMATION FOR SEQ ID NO: 2278:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2278:	
	GTGGCTTTGT CTGTGTTATT GTAGTTTTGT TTCGCTGCGT CCAGCTTTGC TGCTTTTCCC	60
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 2279:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2279:	
	TTAAGTGCCA AAGTCCTTGG TAGCCAGAAT GAACCACCAA CCTCCATTTT TCCAAAAATG	60
15	GTCTTACCT	69
	(2) INFORMATION FOR SEQ ID NO: 2280:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2280:	
	GGATGGAATT GGGTTAAGAA TAAAAAAGGT AATAATTGAG TTTATGATAA TAATAATAAT	60
30	ATTGAGA	67
	(2) INFORMATION FOR SEQ ID NO: 2281:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2281:	
	TTGTTACTTC GGCACGGATA AATCCACGTT CAAAATCAGT ATGAATGATA CCAGCACATT	60
45	GAGGTGCAGT CATACC	76
	(2) INFORMATION FOR SEQ ID NO: 2282:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 137 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AACCCAGAAG ACTTATTATT AGAATCTTAA TCCACAACAC AAAATAGTTT ACTATTCCTA	60
	AAAGCGGGAT TAAATCAATA ACAAACAGCA GTAAGATTAT TTCCTAGTCG AAATATCTTA	120
5	CTGCTGTACT TTATTTn	137
	(2) INFORMATION FOR SEQ ID NO: 2283:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2283:	
	ACAAAGATTT ACTATTTAAC TAATTTATAT GAAGAATAGC TTTCCCTAAT AA	52
20	(2) INFORMATION FOR SEQ ID NO: 2284:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2284:	
	ACTCCTGCAT ATCACAACTA GATTAAATAT ACATCAAACA GATATAGTAA A	51
	(2) INFORMATION FOR SEQ ID NO: 2285:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 77 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2285:	
45	CTAACATGTG TGAACGATAT GCAAATTCAA TATCTCATTC ACGCTTTGCA CTTTATTACT	60
	ACAATCAACG TAACTAT	77
	(2) INFORMATION FOR SEQ ID NO: 2286:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2286:	
5	AAACCTGTAT TTTTAATAAA CAATCGCTTG GACCTATTCA CTGCAGCTCT TCTGGGAC	58
5	(2) INFORMATION FOR SEQ ID NO: 2287:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2287:	
	AATTCATAAA ACCAATAAAT AAGAATTTTA TAGTAAAAGG AAATGGANTA GAGTTGGCAG	60
	ACTTATACAA TATTAAAAAC AAAGAGCTTT TCACGATTAA AAGAGGAATT AATACATCTT	120
20	TATCTCTTTA TAGTCTAGAA CAGGAATATA ATAACAATTA ACGCCTTAAA ATATCCAGAA	180
	TCATATAATT TTGAAGAATT AATA	204
25	(2) INFORMATION FOR SEQ ID NO: 2288:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2288:	
35	GCTCGTAAGG CGTCAACTGT GGCCTTGGGT GCTACATGTA AAGGTTACTT	50
	(2) INFORMATION FOR SEQ ID NO: 2289:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2289:	
	TCGCTTCGGT GGTAAAAATG TCGTGGAGGT CCCGTTGCAG ATGGTTTTAA ACG	53
50	(2) INFORMATION FOR SEQ ID NO: 2290:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2290:	
	TTGGAGGTCA ATGTTCGGCG TAATCTTCAA TGTTTCCGTA CACAATTGCT GCGGTTGACA	60
5	CACATACG	68
	(2) INFORMATION FOR SEQ ID NO: 2291:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2291:	
	TTCGACGAAT TAAAACAAAT CCTTTTATAT GTTGAAGTGT ATTCGAGATT AAA	53
20	(2) INFORMATION FOR SEQ ID NO: 2292:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2292: ATCAATTGTC AACATCTAAT ATTCACTACC AATTATATCG CCACATGTTT TTTAGCAGTA	60
	ACA .	63
35	(2) INFORMATION FOR SEQ ID NO: 2293:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2293:	
	CGACTCAGGT CCATCAAGAG AGACACATTT CGACTACAGG TTATTACTTC TTTGA	55
	(2) INFORMATION FOR SEQ ID NO: 2294:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2294:	
	AAATTTTGGT TAATTTTAAA ACCAAAAAAC CTTGGAAGGA AATGGCCCTT TTCCCAATTT	60
5	T	61
	(2) INFORMATION FOR SEQ ID NO: 2295:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2295:	
	AATCTTAAAA CCTATGGCGT CTATTACATT CCCAAAACCT ATTTTCAGnA ATGTTACCAA	60
20	TTAAACTTGC CGGGGTATGG ACCAGGGTAC CAGGCTAAAA ACTGGAAGAA AGGAAGGAAT	120
	TTTAGAAAAT AATTTATTAA CATGGACCAG GTAACTAA	158
	(2) INFORMATION FOR SEQ ID NO: 2296:	
25	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2296:	
35	TGTTCCAACG ATGAATGTTT GCATGCTTTG TTGCACTGAA ATTGATGAGT TGCTACTTGC	60
	AATCCTAG	68
	(2) INFORMATION FOR SEQ ID NO: 2297:	
40	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 72 base pairs (B) TYPE: nucleic acid	
4.5	<pre>(C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2297:	
50	GTAGGGATTT TTTTTAACCG GGATAGCCCA ACCAAAATTT AATTAATTTT GGGTTTTTGG	60
	ATTGAAGGAA TT	72

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 213 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2298:	
,,,	AAAAATTHTA CCAGGTGAAA AATTATTTTG GTAGGATTTA AATHTAATGG TTTAAATGGT	60
	GGTTTATTAC CTAATTTAAA AATGGTTAAA AGGGCCTTTA CCATTTTTAA AATTTAATCC	120
15	GCCTTTTGGG AGGGGGATTT TAGGGATGGT CCAGTTAGGA CCCCATTACC ACTGGAAACC	180
	AACTTAAAAT TTGACCAAAT TTCCTGGAAA AAA	213
	(2) INFORMATION FOR SEQ ID NO: 2299:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 159 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2299:	
	TATTTTTAAA GGAGGGTAAT AATCTTAATT TAAGTTCATT ATTTTTACTT TCATTATAAA	60
30	TATTTAATGT TACTTTCTTA TTTAGATAAC AATAAAAAA TATAATCTCT nAAAACCCAA	120
	TGAAACAGCT GCTCCAAACA ATTAGTTCTT CTAATTGAA	159
35	(2) INFORMATION FOR SEQ ID NO: 2300:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2300:	
	ACAAGGTCAT TCGGATTTGA CTTTGTTTCA ATTGTTAAAT TTTGCTCCAT CAATTGTCTA	50
	ATTCT	65
50	(2) INFORMATION FOR SEQ ID NO: 2301:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2301:	
5	TTTATTCTTA TTTAAAAACC CANTGAAAGT ANTCTTTNCA TTANTAAAAA	50
	(2) INFORMATION FOR SEQ ID NO: 2302:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2302:	
	GAGATATATG CATGAGCTCT ACGACTTCTT TAGGTTTCAT GGCGACTATC CTGGCAGGGA	60
20	TG	62
	(2) INFORMATION FOR SEQ ID NO: 2303:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2303:	
	ACCAATCCCG TTGTTTTGGT TTTTTAAAAA AAGGAAATTC CAAAAATCCC CCATTT	56
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2304:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2304:	
45	TTTAAAACCC AACGGGTTTG GTTAAAATGG CCTGGGCTTT TCCAAAACTT GGC	53
	(2) INFORMATION FOR SEQ ID NO: 2305:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2305:	
	CGAACAGGTT GCCACTGTAA GATCTGGTGG CATTTAATGG CAATCGTATT TTATTTGGAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2306:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2306:	
	CTTTATAATG GCGGCGCACT TGGCATCTCT GCATTCAGTT ACACGCGGTG GCAACACAAA	60
	ATTTAGGGAA TTCT	74
20	(2) INFORMATION FOR SEQ ID NO: 2307:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2307: TGTCCATGCA CAGCTTATT GGAATTTACC TTTTTACAGG CAACCGCTAA AGA	53
35	(2) INFORMATION FOR SEQ ID NO: 2308: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2308:	
	TAAATGATTA TGGGAATATC CAAAATTATC GAGATCTAAT ATGAAGTGAC TGCACACATA	60
45	TCAGCTCTGA ATGAAT	76
	(2) INFORMATION FOR SEQ ID NO: 2309:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2309:	
	TCCTCAAAAT GTGAGTTAAT AGTCGAGTGG AAGCTGTGAC TTGAGCGACG ATACATCATC	60
5	ANACTATCAA TAATGTTTGC ACATCACTTT TACTACTATC ATTTGATGTA TAAATAC	117
	(2) INFORMATION FOR SEQ ID NO: 2310:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2310:	
	AAACTCATAT CGCTTCCGAT AACCAACCCT GCTGCTGTTG GTACAAATTG TC	52
20	(2) INFORMATION FOR SEQ ID NO: 2311:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2311: AACACTGGAG TCCTAATGTC ATCAAACATC TACCTATAAG ACCTTATATA ATCGTC	56
	(2) INFORMATION FOR SEQ ID NO: 2312:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2312:	
	GATAACATCA TAGGCCATAA CTTCCATTTA GGCCATCAGT TATAGCATGC GGACGACATA	60
45	CTGTGCCATA TG	72
	(2) INFORMATION FOR SEQ ID NO: 2313:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2313:	
	CATCTAATGG GAACGTGTCG ATCCTAGTCA GTATAGTCAT CGGCAGGTAC GA	52
5	(2) INFORMATION FOR SEQ ID NO: 2314:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2314:	
	TAAACTGAAA TTTAATTTTC GGATGGTATT GTTATTAAGA AATAGACATA ATTTGTGCTG	60
	GATA	64
20	(2) INFORMATION FOR SEQ ID NO: 2315:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2315: CTAGTTTAAA TTTCTTAAAC TTCTACATCA GTAAAAGGCC GCTCTGGGAC CATACAATC	59
35	(2) INFORMATION FOR SEQ ID NO: 2316: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2316:	
45	GCATAGTAAC TTAATTGATA GGAGATGAAA ATCCGCAAAG TCATTGGAAG GATT (2) INFORMATION FOR SEQ ID NO: 2317: (i) SEQUENCE CHARACTERISTICS:	54
50	(A) LENGTH: 150 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

	GTATATGCTG GAAAGATAAA GTATGGANAA TGCATGGCGA ACATTTTGTA AGCAGAATGA	60
	GCTATAAGCG TTGAATGGGT TTGAACGTAA ACAATCGAAC AATGATATGT CAGACATACT	120
5	TGCTTTAGAG CACATTTAGA GAGCGACATG	150
	(2) INFORMATION FOR SEQ ID NO: 2318:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2318:	
	AAATCATCGA TGTTAAATAA TTTAATGACA AGGATTAATG AAAGACGGAT TG	52
20	(2) INFORMATION FOR SEQ ID NO: 2319:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2319:	
30	TTAAGGAAAC CTTGGCCAAG GTTAAGGAAA ACCGGGGGTT CCAAGGTTTT TA	52
	(2) INFORMATION FOR SEQ ID NO: 2320:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2320:	,
	ATGAAGTTGA TTTAGGATGA AAATTAATCT TGGGATATTT AATACTTTGT	. 50
45	(2) INFORMATION FOR SEQ ID NO: 2321:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	CTAACGCTAA GGGCGACGGA TGGTGGTNAT GTCAAAGAGA CAAATAGGAT	50
	(2) INFORMATION FOR SEQ ID NO: 2322:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2322:	
15	CGTGGTGATT AATTTTTCGT CGCGTTTTGT TTCCTTTCCC CAGTCATGTT TTATCATTGT	60
	GGGCATCATT GCACCTGGGT TCCATATTAT GACGTCATTT TTTANAAT	108
	(2) INFORMATION FOR SEQ ID NO: 2323:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 212 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2323:	
30	GTCACCGAAT TTCGATTTAT ATTATCACTC AATTTATTAT CTTGAAGCAC GCGTTAAATC	60
	GTCTTTAAAT TGNAACAGTT GCTACTTTAT TGTCTTTACC ATTGATCTGA ATTTGATCCG	120
	CTTTAAGTCC ACTATCTTTT ACAACTTGCn CTACCTTTTG TTGAGTAATT GCTTGTTTAG	180
35	ATTGGAAATC TACGCGTGTA CCACTTGAAA AA	212
	(2) INFORMATION FOR SEQ ID NO: 2324:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2324:	
	TCATTTGTTT TTAATACGTT GTCAAAATTA CCAACAAATG ACAAATTAAA TTTTGCAATA	60
50	CATATCAAGG TGTTATTTTT TTCCTATTTT AATTATGTAT AACGCATTAA AAGTGACGTm	120
JU	AATATTCAAA GGA	133
	(2) INFORMATION FOR SEQ ID NO: 2325:	

5	(A) LENGTH: 216 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2325:	
10	ATGAACGACC GTGGACAGAC AATATTTAAA GCATTTAAAA ACAGCGTTCC CAGAAAGACA	60
	ATATATAACC AATATTAACA AAAGCAATGC ACATTACTTC ACAAATGAAA TCAAAGCAAC	120
	ACACATATAC AATGCAATAA GCGGGCAACA ACAAACAGAT TTCAACACGC CTGTCATACA	180
15	GCAATATCGT TAACAAATGA CAnCCGCCnT TTAGGC	216
	(2) INFORMATION FOR SEQ ID NO: 2326:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2326:	
	TGACCATATG ATTGAGGAAG GTTTTATTGA TCCTAAGTAT CGTGCTCTTG CACCGTTATG	60
30	CGACACTAAG GAATCATTAA TTGAATCAAT ATTAAATTTn AAACCTCTGG GTACTCGTTC	120
	ATACGATTAA TCATTCTAAG G	141
	(2) INFORMATION FOR SEQ ID NO: 2327:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2327:	
	TGAAACTGCA GCGTGGCCGA GTGGGGGTTG TGCCAGGTGA CCCCAGATGG GCGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2328:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GAAGCCAGCC TAATTGGATA CCACCGGAAG TAACTTTTGA CCAGGGCCGT CGCA	54
	(2) INFORMATION FOR SEQ ID NO: 2329:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2329:	
15	GTTCCCGGGT CCAGGCCGTT GTCTTGTGCC GGGGTGTTTG GTCCTTGGTT GTGT	54
,,	(2) INFORMATION FOR SEQ ID NO: 2330:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 190 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2330:	
	TATATTATAT ATTTAACTGC TGTGATGTAT TCTGAAAAAA TAGTAGTATT GCCTATAATC	60
20	ATCTATGCCA TTGTGTTTGT AATAATTGGT ATCACTTATA TCTTTATAGG CGACAGCTAT	120
30	GATCAATTAA CAAATTTCAA TGTGATTTTG TATATGGGGA GTTTGTNTTA TGCATGGATG	180
	GCTATTAGAA	190
35	(2) INFORMATION FOR SEQ ID NO: 2331: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2331:	
45	TTTTCACCTC GTGTTTTAAA TTCAATTGAA TCTAAACTAA AAGTACCTTT AAGT	54
	(2) INFORMATION FOR SEQ ID NO: 2332:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

CATATTAATA CAATACACCC CTATATATGC TCACTTGTTT GAATTAATAA ACTTTAGCAT TCTGCAAATA ATATTTTAAA AATAACTATA CTTTTTATTT ACCTATTGAA AAATAGTGTT ATCATATTTA TTAAGAAGCT ATTTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTTG TTAAAT (2) INFORMATION FOR SEQ ID NO: 2333: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGGAG CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:			
CATATTAATA CAATACACCC CTATATATGC TCACTTGTTT GAATTAATAA ACTTTAGCAT TCTGCAAATA ATATTTTAAA AATAACTATA CTTTTTATTT ACCTATTGAA AAATAGTGTT ATCATATTTA TTAAGAAGCT ATTTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTTG TTAAAT (2) INFORMATION FOR SEQ ID NO: 2333: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2334: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2334: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2334: AGAAAAGGAG CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2335: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2332:	
CATATTAATA CAATACACCC CTATATATGC TCACTTGTTT GAATTAATAA ACTTTAGCAT TCTGCAAATA ATATTTTAAA AATAACTATA CTTTTTATTT ACCTATTGAA AAATAGTGTT ATCATATTTA TTAAGAAGCT ATTTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTTG 22. TTAAAT (2) INFORMATION FOR SEQ ID NO: 2333: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2334: (1) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (2) INFORMATION FOR SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGGAGA ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	_	TTCTAAAAAT ATTAACGAAT TATACAACTT TAAGAGTTTT TAGTATGTAA ATATTCTTTT	60
ATCATATTA TTAAGAAGCT ATTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTG TTAAAT (2) INFORMATION FOR SEQ ID NO: 2333: (3) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	5	CATATTAATA CAATACACCC CTATATATGC TCACTTGTTT GAATTAATAA ACTTTAGCAT	120
TTAAAT (2) INFORMATION FOR SEQ ID NO: 2333: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDMESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:		TCTGCAAATA ATATTITAAA AATAACTATA CTTTTTATTT ACCTATTGAA AAATAGTGTT	180
(2) INFORMATION FOR SEQ ID NO: 2333: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear	10	ATCATATTTA TTAAGAAGCT ATTTTTATAC TAGTAGGTGT CAGTCATGAA TAACATTTTG	240
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		TTAAAT	246
(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(2) INFORMATION FOR SEQ ID NO: 2333:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333: CCTTCTAACA TCTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE CTCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCCGGAAG 12	15	(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
CCTTCTAACA TCTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA (2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	20		
(2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE OF COURT AND ADDRESS: ADDR		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2333:	
(2) INFORMATION FOR SEQ ID NO: 2334: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	25	CCTTCTAACA TCTTTTTACC ACTCATTGAA ACATGTGATC CTAATAACAT AA	52
(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334: AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	23	(2) INFORMATION FOR SEQ ID NO: 2334:	
AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT (2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS:	30	(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
(2) INFORMATION FOR SEQ ID NO: 2335: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: (CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG 12	35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2334:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG 12		AGAAAAGAGA CTGAAACAAC AAATTCAGGC AACTTTTGAA CAACAGAGAC ATCGATTAAT	60
(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 193 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG 12		(2) INFORMATION FOR SEQ ID NO: 2335:	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335: CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG 12	40	(A) LENGTH: 193 base pairs (B) TYPE: nucleic acid	
CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA 6 AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG 12	45	(D) TOPOLOGY: linear	
AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG 12		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2335:	
	50	CCTCAATCAG CTCCTAAAGA ACAAAATAGC GACTCGATTG ATGAGGAAAC AGTAACGAAA	60
TTAAGACGTA AGCGACAAAA GCGAATCCAA TACAGTGTTA TTACAATnTT GGTATTGTTG 18		AAAGAACGAA AAAGTAAAGT AACACAATTA AAGCCATTAA CACTTGAAGA AAAGCGGAAG	120
		TTAAGACGTA AGCGACAAAA GCGAATCCAA TACAGTGTTA TTACAATnTT GGTATTGTTG	180

	(2) INFORMATION FOR SEQ ID NO: 2536:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2336:	
	CCTACAGTCC CAACACTGTC AGTACACTGC CGATACCCAA CCTCTGGCCG GTCCGGCA	5
15	(2) INFORMATION FOR SEQ ID NO: 2337:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2337:	
25	ATATTTTTMA TTTAATGGTT TTACTACTGC TACAACTATC ATAGGTGGCA	5
	(2) INFORMATION FOR SEQ ID NO: 2338:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2338:	
	CTCCTGTAGA TTTAAAATCT CCTAAATAAC AAACGAATAA TCGGCCATCT TTATGTATTT	60
40	TGATTGCTGC AGGATTCGCT TTGTGACTTA CAAAAGGTCG TTTGATTTCC TTCGTTTCAG	120
	GATTGATTTT GAAAATATTG CCTTCGAATA CATCCAATAA AAAGAGTTGT CCCTGCCGAT	180
45	CAAAGTTCAA TCCTTCTAGT TGCAATCCTT TTTTGGAAAT TTCAAGCCAT GGTTCAGCTG	240
40	TAATTGTTTG TAATTCACTT TCAGATATAA TTGGAACAGC ACTATTGGAC TTCCCGCnAT	300
	AAAATAATGG AGGGnAAAnC TGGTGGGGAC ATCCATGAGC CATTCCTTTC CATTCCATTC	360
50	GGTTTTAACT AACCAATT	378
	(2) INFORMATION FOR SEQ ID NO: 2339:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2339:	
	ATGAAAATAA ACTGTGTCTC CnGATGTATA CGTCCCTTCA AGCAGACTTC	50
10	(2) INFORMATION FOR SEQ ID NO: 2340:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	. •
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2340:	
	TATCCATATG TGAAAAATGT CATATATGAG TCTAGTTTTG TATAAATGGA GACTCGAAC	59
	(2) INFORMATION FOR SEQ ID NO: 2341:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 189 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	÷
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2341:	
	ATTGATAAAA TATGATTAAG CGTTGTTGCA AATGACATTT TCTCAAAAAG CGCTTCACTA	60
35	TCAATTGGTA CTTGTGTGTn AATTTCAGCC AGTCGCTTCG ATAAATATAG TTCATCTAAA	120
	TTGTCATTAA TCTTATTACG TTGCCCAGCT GATAATGCAT CAATGTTTTC AACCACATTT	180
	TCAACGCTT	189
40	(2) INFORMATION FOR SEQ ID NO: 2342:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2342:	
	ATCAATTAAA ACAAAGCATA CAACAATTTG TTGATGTTGA ATCTAAATCA ATTTTAGAAC	60
	AACAAATGAT TCATCAGCTT CAACAAATGG ATCGTTCTTA TGTAGAGATG ATTACAGAAT	120

	(2) INFORMATION FOR SEQ ID NO: 2343:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2343:	
	CTTAACCCCC CTTTTTTCCC AATTTTAATG GGGAAAAATT GTAATTAACC TGGGC	55
15	(2) INFORMATION FOR SEQ ID NO: 2344:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(0, 10102501) Inicat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2344:	
25	GACAAATAAA CATGACCTGG ACAAAGAAGA ACAATAAACA AGCCTGGCAA	50
	(2) INFORMATION FOR SEQ ID NO: 2345:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2345:	
	GTATTGCGAT GATGCATACG GGTATTGTTC TGATTAAATA ATATTTCATA TTTAATGTTG	60
40	ATAAATGTTG AATAAACAAT CCGCAAAGnG CACTTGATGA TAGTGCTAAG A	111
	(2) INFORMATION FOR SEQ ID NO: 2346:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2346:	
	GCAAACAGTT TCCGTGTCCG TTTTCCAATT AAGTTAAGGA ACCCAAAGAG A	51

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2347:	
	TCGTAGGTGC CATAACACAC GTTACCTGGG ACTCATATGA AGTATTATGT CGAGACGACC	6
	(2) INFORMATION FOR SEQ ID NO: 2348:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2348:	
	GTTTTTAATA GGCTCTTTAC GTATCTAAAA ATAATTGCAT TATTGGTGTG CCTTGATGTA	60
25	ATTGAATTAA AGTACCGTTT GGTTGTAACG TTTCAGGTAT ATCATTTTCA ACMATAAC	118
	(2) INFORMATION FOR SEQ ID NO: 2349:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2349:	
	ATGACAGAAA GCAAAATCCC AATGTTGATA TACCGTTTTT GACACCACTT GATTATCATT	60
40	ATTTTTCTT TAGCGATGGA TTTTATATTA CGATTTCAAT TCTTACTATC GTTGCATTAT	120
	TGTCATTCAA ACTGTATCGT TTTTACTnTT ATAGACTTTT CGCAATAGTA ACATGG	176
	(2) INFORMATION FOR SEQ ID NO: 2350:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2350:	

	CTACGACTGA CATTAACTGT GCAGATGTAC CTGGATTCTA TTTTTTCAAG AACAAATTGT	120
	AATAATTGAT AGTTATATGG TGCAATGTCA CCTTCATCCA TTGAGCGCTC AATAATTTCA	180
5	GCTGCnAGAG CGGCnTGACT G	201
	(2) INFORMATION FOR SEQ ID NO: 2351:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2351:	
	ATCGCTATAA CCTATCAGTG ATAATATTTG ATTGCATGGT GCACCATTTG ANATTTCACT	60
20	TAGAATGGTG GTACCTAATT GCTTATTTTT ATATGTCATT TGAAGATTTA AAAATTAAAA	120
	ACTTTGATAC AGAGTGAAAC CATATTTCAA CAAATTAC	158
25	(2) INFORMATION FOR SEQ ID NO: 2352:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2352:	
35	TCGTAATCAA AACATTTTGA ACAGGATTAT AGTAAGGGAA TTTTTGGATT TTAACTTGTG	60
	TTTGTTCATT TTTTAATAAG AGTCGAGCTA AGTCTTGCAA CATCATTACT TGCTTGGCAT	120
40	CTAACTGTTC GTCATTAAAT TTTATGAAAC GATCACTCAT GTTTTATCCC TCTTTAAAAG	180
40	TTTAGTTCTA CAGCATTATA TATTGCTTGT TGTTCACGTT CATCTTCCAA TTTATCAATA	240
	ATTGTACGTT TAATTGCACG TTCAACTGGC ATTACAGTGA TTAAATCACA CAAGTCTAAT	300
45	AATGCACGGG ATACTAGCGG CTTCTTCAGA AATTTGTCCC TGCTTAGACA TAGTACGTAA	360
	ATCTTCATTG AAACTTMAAT AATTTGGTTC GATTTGGTTT	400
	(2) INFORMATION FOR SEQ ID NO: 2353:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2353:	
	ATTAATGGGG TTAAATAACA TTTTGACTGC GAAAGATTTA TTCTTTTCAG GTAAATCATT	6
5	GATAGATGTA TATAGTCAAT TTGCTGGATT AGCTGAAATG ATAAATGTnT TTGCGAATGC	120
	ACCATTT	12
10	(2) INFORMATION FOR SEQ ID NO: 2354:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2354:	
20	ATCTCGCTGT TTTTATGAAA GAAAACTACA TTTTCGAGAG AATAAAAAGA TTTTTCTGAA	60
	ATTTAATCTA TCAATTACAT TGATTTACTA ATATAATTAG AAAGTAAATT TTATTTGATC	120
25	AAAGTAAATG GGGGAAGTAC TGTGATAGAA AATAAGAAAA CAGTTGAAGA TACATATTCA	180
	ACAGGCGCAA TTGTTGATTC AATATCATCT TCAGTnCAAA TGn	223
	(2) INFORMATION FOR SEQ ID NO: 2355:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2355:	
40	ACACTTGTTC AAACACTCAC AATGATAAAG CATATTATCA GTATTGTAGT GTGTGGAAAA	60
40	TGACAGCCAT CTAAGGAGAA AAATGATGAA AAGAATATTG GTAGTATTTT TAATGTTAGC	120
	AATTATATTG GCAGGTTGTT CTAATAAAGG TGAAAAGTAT CAAAAAGATA TTGATAAAGT	180
45	GTACAAAGAA CAGAATCAAA TGAATAAAAT TGCCTCGAAA GTACAAAACA CTATTAAAAC	240
	AGACATTAAA CAAGAAGACA GTAATACACA TGTTTATAAA GATGGTAAAG TCATTGTTAT	300
	TGGTATTCAA TTATATAAAG nTCGTGAAAA AATGTATTTA TTTCGCATAT GAAnTAAAAG	360
50	GTGGTTAAGG CCAGAGGATT TAATCAGNGG AAANTAGACC	400
	(2) INFORMATION FOR SEQ ID NO: 2356:	
55	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2356:			
AATTTACTTT GTGCCACAAG GTTATCAATG TCTTTTGAAC CACCAAACAT TCTAGCGATT	60		
AAGTGACCTC CATCATCGTC TGGTAATCTA TCCTCTCCCC CCACAGTTCT TTGTGCATGG	120		
CTATTACGAT CCCCATCTTT TAGAGAGAGA TTGTCTACAT AAACTTCTTT TATGCGACCT	180		
TTATGATCGG TTCGATATAT GTGACCAGTA GGTGTTGTGT ATTCAATATT CGCCTTTAGT	240		
15 TTCTTAGGTn CTAAGTCTTG GCATAGTGTT CTCCGAATTC nAACCTTGGT GTTAGTTTGG	300		
TGATTCAACA TACTTTTGAT GGAATTCATT TnCATGGGCT ACTT	344		
(2) INFORMATION FOR SEQ ID NO: 2357:	•••		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2357:			
30 TATGCGCCCC TGCTTGATCT TTCATTTGCG TCCACTCAAT TAGTTGTTTG CGC	53		
(2) INFORMATION FOR SEQ ID NO: 2358:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		35	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2358:		40	
TTTTTTCAC CTTCTGAAAT TGATAAATCT AGGTTATCGA ATATAGTCTT ATCGGCATAA 60			A
ATTTATTTA AATGTTCAAT TTTATATGCT TCCATACCCA TCTTCCTTCT TCTGTTGAAA 120		45	G
CTCTACGTA CTTAAATCAG TTCTATACAT TATACACCTT TTTGAAATCA AAAGAAATCG 180		45	
			T
		50	A
GCTTTGATG ACTATGCTAA TGATCTTTAT AATATACCTT TTTATCAACA CATATAATGT 300			G
AAACATAAT ATAMAAGAAC ATAATAAAAA CCCGGATTGA TATTTTATCA ATCCGAGTTC 360			A
TGTTTAGAT ATTATTTTT AGAGTTTGCT TTAGGTCCTG 400		55	G

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 154 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2359:	
	TTAATGTCGC CATTTTTGT TAGGTAGACG TATAAATCTG GACCTTTTGA TGATTTGTAG	60
	TTAGTAAGCA TTAATTTACC ATTTTTAATC TCAGCTTTAC CTTCAACAGT TTCACCGTTT	120
15	TTAGAACTGA nTGTACCTGT TAGGTGTTTT GTTT	154
	(2) INFORMATION FOR SEQ ID NO: 2360:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	. (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2360:	
	ATATGTCTTG TGATTTTTCA GGTGTAAGTT AGTATGCAAG TGATTATGAT TGATAGT	57
30	(2) INFORMATION FOR SEQ ID NO: 2361:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2361:	
40	GGCATCAAAT TAGTAGCGAC TCACACGTGA TGCATCCTGT GTTTTGGATC TCATTTCT	58
	(2) INFORMATION FOR SEQ ID NO: 2362:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2362:	
	TGTTATTATC GnAGAGGCTT TTCGCTTTGG AATAAGGTAT TACGTGAATG	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2363:	
	CTCTTCTGGT CCCTGACATA CATAGGAGAA ATAGCnCCAT GTACAACGTG	50
	(2) INFORMATION FOR SEQ ID NO: 2364:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2364:	
25	ATTGCCAATG TCGTTAGTTC GTGAGGCTGT TGGTGAAAGT TGTGTTTGAA	50
	(2) INFORMATION FOR SEQ ID NO: 2365:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2365:	
	CCATGATTTA AATCATTGAT TAATGGTGCT TGTTCTACAT CTGTGTAAAA TTCATACAAT	60
40	TCTTTAGCAT CGTCGAATAG TTCATCACGA CGTTGGnTAA ATTCTTCTTC T	111
	(2) INFORMATION FOR SEQ ID NO: 2366:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2366:	
•	TAATGCTGAG CGTGTTACTT TAGTTGGATC AACGATACCT TCTTCTAACA TATTAACCCA	60
55	CTCnTTTGTA GCAGCGTTAA AACCAACACC CGGCTCTGCG TTTTTCAAAC GTTCTACAAT	120

	(2) INFORMATION FOR SEQ ID NO: 2367:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2367:	
	CCTGATTGCA AAGTACAGCA AGCACTACAG ACGCCTAAnC ACTNACACTA	5
15	(2) INFORMATION FOR SEQ ID NO: 2368:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2368:	
25	AAAATGGTAT TGCAATTAGT AATGTTACAA CAAGTGTTGT AATAGCTGCA TAAAT	55
	(2) INFORMATION FOR SEQ ID NO: 2369:	•
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2369:	
	TATAGGATGA AAATCCTGCC AAAAGATTAA GGGGTGGCCT AATGAACCAT G	51
40	(2) INFORMATION FOR SEQ ID NO: 2370:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2370:	
	TTGCTCGAGG TGGTAAATAC GCAAAGTTTA TTTGGTTGTG CTAAGAGAGA AA	52
	(2) INFORMATION FOR SEQ ID NO: 2371:	
55		

5	(A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2371:		
10	TAATTTGAAT AAGGTGGAAG TGATAAACAG TGCTTTGCGA ATCTAGAGTC ATTAATCAAA	60	
	ACCCTA	66	
	(2) INFORMATION FOR SEQ ID NO: 2372:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid		
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2372:		
25	AGACAGGTAC TGTCCTACGG TATGGAGCAG AAGCGGGAAA GCTGCCCAGA GCCAACTGTA	60	
	GACAA	65	
	(2) INFORMATION FOR SEQ ID NO: 2373:		
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2373:		
	TTGCAGTGAC GGCTTATAAT CATTCCAAGC GAACAATTAG ACATTCCATA TAAAATATAC	60	
40	AGATGGCTTT CAGTAGAGTA GTGGATTCGG ATTCACGAAC TATACTGGAA GCTTTTTATT	120	
	ATAAATGAAG AGAAGTTATA TTTTTAGCAT GTATAGTTGA ATACTGGGTT AAAATACCAT	180	
45	ATTAATAATG AAGTAAAGGT ATGAGTGATT ATGAAAGTGT TTTGAATGAA	240	
	TTGGTGATGC TTTTAATTGA AAAGATTAAC AGGATTCAAC TTGGTAAATT GTATTAAATG	300	
	TGAGAAAATA AAAGTATATT CATTGAGAGA TATATGAGTC AATGATCGTT TTAAACAAGA	360	
50	TAAGTGTATT TTAATATGTA AAAGTTATGT AATAAATA	400	
	(2) INFORMATION FOR SEQ ID NO: 2374:		
56	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2374:	
	CCTATCATGC CTCTCTCA CTGAATCCTT TAGATCCCCT TCCCTCCTCT	60
10	TTTCCCCTCC	70
	(2) INFORMATION FOR SEQ ID NO: 2375:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2375:	
	CCAAGTCAGA GCAGCAGTTC AGTTCGTCAG CNGTTCAGTT CAGAGCNGTC	50
25	(2) INFORMATION FOR SEQ ID NO: 2376:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
30	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2376:	
	GTTGGTGAAG CTGTTGCCGA nGGAGAAGCG GGTATGGATC CTGACGGTGn	50
	(2) INFORMATION FOR SEQ ID NO: 2377:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2377:	
	AATTGCAGGA CAGGTCAAAG GCAAATGCAC GTATTCAGGT CATGCTCATG TGCATGTTG	59
50	(2) INFORMATION FOR SEQ ID NO: 2378:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid	
<i>55</i>	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2378:	
5	TTTATCATCG TATAAATCTA TATCTAATTG ATTAAACTTC GGGTGCTTAA CTAACTCTCT	60
	CAATACACTT ACACCAGCAG TTCCCATGCC TATTATTGCT ACACGCATAT ATCATCCATC	120
	CTTTTGTAAT TCAAAATATT ATATTTAAAC TATTACCTAT AATTATAGCA ATTTGGTATT	180
10	TCCAATAAAA TTTATnAAGG TAAGCNATTA TTTCACTTTC ACAACCATT	229
	(2) INFORMATION FOR SEQ ID NO: 2379:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2379:	
	AGTTTTTTGT TTGACGTATT TAATTTACTA TTTGCTTGAT TGATATTTTT AGACATTAAA	60
25	TAGTGTTCTC CTAATCAATT TATTCTTCTT TATHTCAGCA TTATTCGCAC TGACAT	116
	(2) INFORMATION FOR SEQ ID NO: 2380:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2380:	
	CAAATCTTAG CGGATGATTG GCATGTATAT TCTGCTGGTA TCGAAnCACG CGGTGTTAAT	60
40	CCCAAAGCGA TAGAAGCTAT GAACAGAAGT CGGCGTTGAT ATGTCGAATC GTACGTCAGA	120
	TTTAATCGAT AATAAT	136
	(2) INFORMATION FOR SEQ ID NO: 2381:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2381:	

	TTAATTGATA GCTTTTATCT GTAGGAAAAG CTATTTTAAA GATTTCTAGT GTATCTATAA	120
	CTTTTTTGGG ACGATATTGA ATATTACAAT CTTTAAATGC CTTTTTAATA AAATTCAAAT	180
5	CAAAATCTAC ATTATGAGCT ACAAAAATGC AATCTTTTAT CTTATCGTAG ATTTCTTGTG	240
	CAACTTGATT AAAATATGGC GCTTGTTGTA GCATATTTTC TTCAATGGAT GTTAACGCTT	300
10	GAATGAACGG CGGAATCTCT AAATTTGTTC TAATCATAGA ATGATATGTA TCAATAATTT	360
10	GGTTATTGCG CACAAACGTT ATACCAATTT GAATGATATC	400
	(2) INFORMATION FOR SEQ ID NO: 2382:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2382:	
•	TATTTTGTTA ATAAAGTTAA TATATGTTTG TTGTACAGAT AGTTCAGGAT ACA	53
25	(2) INFORMATION FOR SEQ ID NO: 2383:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2383:	
	CCCGAGCTTG CCCTCCTTCC CCCCTCTTCG CCTCCAGACG AAGTGCCCTT CTGTCCTTG	59
	(2) INFORMATION FOR SEQ ID NO: 2384:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2384:	
50	AGCCAACATC CCnGATGGTA CTTGCATTAA TGCATAACCT AGAGAGAAGA ATGATGCCAA	60
50	TAAACCAAAT TGTGGTTTTG TCATCCCTAA ATCATCCATC ATTTGCTTAG	110
	(2) INFORMATION FOR SEQ ID NO: 2385:	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2385:	
10	TGAAAGTTCT TTTANGCATC AATTTTAANA CTACGAGCGG ACNCTAATAT	50
	(2) INFORMATION FOR SEQ ID NO: 2386:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2386:	
	GGCAATTTAT TGACACAATG CTTGAGCNAT TGATAGCAGG ACAAGAAAGA ATACTTGATG	60
25	AGTTAATACC AAAAATGGAT GCGACTGAAA AATTAACGCT TTATTTAACT AGTCATTATA	120
	AACAGATAGA TTATGAATTT TTGTATCTCC TTTCAATGGA TAAATTGTTT GGAAATAAAA	180
	GAAATAGATT AACATTAATT GATTTAGAAA ACATATTGGG AGTAGGAAGA GTAAAAATTA	240
30	GTnGT	245
	(2) INFORMATION FOR SEQ ID NO: 2387:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2387:	
	CACAAAATTC GAAATCGTCA TCGGTGATAT GTTTAATACT TGGGAAAATA TAAAACGCGC	60
45	CTTCAGGTTG AGCGGTAATC TCAAAACCTA ATTTAGTTAA TTCAGATACT AAATAATTTC	120
	TTCGTTCnAC ATAAGCTTCG	140
	(2) INFORMATION FOR SEQ ID NO: 2388:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2388:	
	ATATAACATT GTAGGGCCTA ATAATTTATT TTATGTCTCA GACTCATACA ATGGTTATTT	60
5	AACTTATTTA CCACAAATTG AGCACTAAGA CTCACTATTA TCGATTCTTC TATTGAACAn	120
	(2) INFORMATION FOR SEQ ID NO: 2389:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2389:	
	TCTAAATCCA GCATGATCTA CATCAAAGCT GAATTCACCT TTTTCATCGA CTTGCAAATC	60
20	AGGGAATTCT TGACCTTCAC CTAGT	85
	(2) INFORMATION FOR SEQ ID NO: 2390:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2390:	
	GGTGTTTATA AAGCAGGGGC TGAGCCTCGG TCAGGACTGG ATACACAGGC AGTACGGGTG	60
35	A	61
	(2) INFORMATION FOR SEQ ID NO: 2391:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2391:	
	TAAAGTAACC ACTTTAGATG ACATTTTAGA AGTTATGGGC CGAATGCAAA C	51
50	(2) INFORMATION FOR SEQ ID NO: 2392:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
55	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2392:	
5	GGTCGGAnTC CCGGGTCGAC CCACGCGTCC GCATCAACCT AGnAGAAGCn	50
	(2) INFORMATION FOR SEQ ID NO: 2393:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2393:	•
	ATTTCCAAAC GAATTGAAAA ACGGACGTAA ATTCTTAACT AAAGGCGATA AATGT	55
20	(2) INFORMATION FOR SEQ ID NO: 2394:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2394:	
	ATAGGTTGCT ACTATTTATA TCGACTCATT TTCACTTACA AATATGACAT TGTCTCTAGA	60
	ACACMAAAAT TAATTTGCGT CATATCTGCT ACAGTTTTGA GTGTGTTATC AAGTGTATTT	120
35	(2) INFORMATION FOR SEQ ID NO: 2395:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2395:	
45	TGGACCATAG TAAAGCATTA CGGTCGGTTT ATTATTTTCT AAGGAAGTAT GTTTATATAA	60
	ATCTATGCTC ATTTGTTTT TAGCGTCTGT TTGACCTATT ATTTTAGAAC CAGCCATCTG	120
	CTCTTTATAA AAATTTATTA CATCATCTTT TTTTAATGTT GTATATTCAT AGTTTATTTC	180
50	TATTATHTCA GAATCGTGAA AACTATTTAG TGATTGANAT ACTCTTTTTG GAGGATTCTG	240
	AATATAGATT TTCTTAATAT T	261

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2396:	
10	GTTTTGAATA TAGGGGCTTT TATCACTCTC CGAAGTCTnT TCTAAGTTAG ATTTGGAAAA	60
	TAACACTTTT TTAGTTTCAT TCAAGCGAGT CGAGTGACTC CAGA	104
15	(2) INFORMATION FOR SEQ ID NO: 2397:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2397:	-
	GATTATCGAT CACAGTATGA TTTACGTAGC AATTTCTGGT ACATATACGC CTAT	54
	(2) INFORMATION FOR SEQ ID NO: 2398:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2398:	
	GCTTCACCTT GAACTAGCAA ATAAGGATAA AACAAGCATT CTTTACATGT TTCTTTTAAA	60
40	TACGTTTGAT ATTTTAATAA TACTTTTTCG ATTTTACTCA TATAAGTTTG AAGTTCTAAT	120
	TTTTCATTCT CACTTATTTT GTATATATTA CATTCATTAT GTTCTGTCAG AAAAATATAA	180
	GGGTCAATAT TAATTTCGTC TATCAATTCA TAAATTTCAC TTAAGTATTT nTnCT	235
45	(2) INFORMATION FOR SEQ ID NO: 2399:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TTTGATGCAC TTATTTGTGT AATGACATCT TTACAGTCTT TTCCTTCCTC CATCATTTTA	60
	ATAATTCCAT TTAGTTGCCC TTGTATTCTA TTAATACGAT TAATCATTTT n	111
5	(2) INFORMATION FOR SEQ ID NO: 2400:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2400:	
	AAATGCTGGC TGAGTTTTGG GCCACCCGCA AAGGCACTGG ACCGGTGCGA AACC	54
	(2) INFORMATION FOR SEQ ID NO: 2401:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2401:	
30	AACCACTCAT CACTACTAAA ATGATACTTA AAAACAAAGT CTTAATACAC TTTTTCATAA	60
50	TATCAACTTC TTTCTATATT TAATACATTA ATTATACATC TTTnTnAAAT AAAAATATGT	120
	GTAAAATTTT AAAACTTATT TAATTGATGT TTTAATAATG TATTATAGAA ATTATTGACA	180
35	TATGATTAAA AACCCTTAGG ATAGT	205
-	(2) INFORMATION FOR SEQ ID NO: 2402:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
43	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2402:	
	AGATAATCAT AGAGAAAGTC CACAGTCGGT AGAGGTGGTA GCTGAAAACA ACATACTATT	60
50	AATTATGAAG TGCTTTGTAA CTTGTCGAGA CGTTTGCCGC GAATCTATCA TGATGGTGAT	120
	CAACGTTTTG ThACAAATGA	140
	(2) INFORMATION FOR SEQ ID NO: 2403:	

5	(A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2403:	
10	ATTTAACCAC TCCTCCAATG ATAAGATTGA AAGGCAAGAT GACCTTCCAA TCTTATTT	58
	(2) INFORMATION FOR SEQ ID NO: 2404:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2404:	
	CAGCTTCTAC AATACGGCGT GCTATAGCAA GCATTAATGT AAATCCTAAT TCTGCAGTTG	60
25	T ·	61
	(2) INFORMATION FOR SEQ ID NO: 2405:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2405:	
	AATAATCATT TTAATACGGT CTTCAGGAAT TGAAGTGTCT ACAGGTACAT ATCCACATCC	60
40	TGCTTTAATG GGCACCAATC ATCCCAACAA TCATATATGG TGACATGTGA CCGANTAAAA	120
70	TCATCGGGTT TCTnACTACC TTGTAATCGA TGTGGCTAAT TTACTAGACT CATCCATTAA	180
	CTGTTGATAA GTTAATTCCA TCAGTTGTGT GTCTAAC	217
45	(2) INFORMATION FOR SEQ ID NO: 2406:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2406:	

	GTAGTATCCA ACGTATTTCG GATTGCATCG AGTTGATTTT TATTATTTTC TTCAATGCTA	120
	TCAAGCGCAn CTGTATTACG TCTTACTTTA GGTTTTATTT GCTCTATTGC CTTGATTGTT	180
5	TGATnTCTAA CATCAGTAAC AGCAGCATCT TGATTTGTAT TGTCTATT	228
	(2) INFORMATION FOR SEQ ID NO: 2407:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 110 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2407:	
	CCTTTCGTCT CGCGCGTTTC GGTGATGACG GTGAAAACCT CTGACACATG CAGCTCCCGG	60
20	AGACGGTCAC AGCTTGTCTG TAAAGCGGAT GCCGGGNAGC AGACAGCGAT	110
i	(2) INFORMATION FOR SEQ ID NO: 2408:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2408:	60
	GGAGACCCCA AAAATTTTGT CGTTGAAGAT GCCTTTTTTT AAGCGTTATT TGGCTATATC	60
35	AGTTTCTAAC TGT	73
	(2) INFORMATION FOR SEQ ID NO: 2409:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2409:	
	ARATCATTAG AGAGGAATAG TTCCCTTTGT TACGCCAAAG ATTCGATATT GAC	53
50	(2) INFORMATION FOR SEQ ID NO: 2410:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2410:	
	CCATATGATT GTATAGGATC CATGACGTCT CCACTGACCC CTGACTCTAG TATC	54
5	(2) INFORMATION FOR SEQ ID NO: 2411:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2411:	
	GTTCCTCTTC AATTGTTATA TGTATATCAC AAAAATTATT TCATTATTTT ACCATTATTA	60
	TTTTACAAAT ATTATCCCAA GAATACAATT CAAGAAATGA TTAACTTTAC TTTAGAATTG	120
20	TACCTTATTA CATTATTTAT GAAAGTACTC TCTCAATTAT AACNAAAAAG AAGGTGTTCA	180
	ATACATHCAT ATTTAGTCTT ATAT	204
	(2) INFORMATION FOR SEQ ID NO: 2412:	•
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(2) 101020011 1111001	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2412:	
35	CAGTGGCGCA GAAACATAAC GCTCAGGGAA GCACAGCACC TCATTATGCC AAAGCT	56
	(2) INFORMATION FOR SEQ ID NO: 2413:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2413:	
	TCGCTGGCGG GTCCCGCGCG CCTAGCGTGC TCATGTGCGG TGTTCTAGGT GTTGGGGTTG	60
	CAGTCA	66
50	(2) INFORMATION FOR SEQ ID NO: 2414:	

5	(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2414:	
10	GGATAGAAAT GGGAATCCAC CCATCGGTGG GGGTACCAGG CTCTTCATAT GGCCTTGTGG	60
	ACTTC	69
	(2) INFORMATION FOR SEQ ID NO: 2415:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2415:	
25	TTAAATAGAT AGAATAGAAT TAAAGAGACG ATGATAGGTG CTGCTATCGT CTTAAAAACG	60
20	ATGATAAAAG GATCAAAAAC ATATGATACT TTTTCGAAAA TAAAAATAAC AATACCCAAC	120
	AATACTAGCG CTATTAATGA GAAGACTAAA TCATTCCCAC CAACAAACTT CATATACCGT	180
30	GATTCGGTAA ATTTTnnAAA ATTCTTTCTT ATATTCTTTT CATTTTCATT CAATTATAGA	240
	TTCACCACCA CTTAAAATAT TCATAAG	267
	(2) INFORMATION FOR SEQ ID NO: 2416:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2416:	
45	TTAAACAAAT GAATATAGTA GTTCCATTAT CCTCACTTTT AATCGTTTAT	50
45	(2) INFORMATION FOR SEQ ID NO: 2417:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 177 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTTGCTGGGA GTTGCATTAA GAAAATATAC ACATTTACTT GACATTCAAC TTGATAAAAA	60
	ATTAGTTATT GCCATATGTT GCATCACATT TATAGGGATT TTAATATTTT ATGTACGCCT	120
5	AATTAAAAAA TCATCTTTAA ATATTTATAA TACTAAAAAT AAAAGGTCAA AAAT π TT	. 177
	(2) INFORMATION FOR SEQ ID NO: 2418:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2418:	
	AAAATGAAGC GGTCGCAAAA TATAATGACG TGAAAGCATT TTATACTCAT GGACATTTAT	60
20	ATCAAGTCAA TCGAACAAGA GATTTATTAG CTGAAAAAGG ACTTGAATTA GGTTGTTTGT	120
	TTGCATTTTA TGGACATACA CATGTGGCAA AATATGAGTA TATTAATGGT GTTCATGTTA	180
	TTAATCCTGG AAGTATATCT CAATCTAGAA GTTCAATGGA AGAAACATAT GCTGAAGTTA	240
25	TTATTGATGA TCAAACTTTA CATGGCACCA TCAATTTCAA AAATCGACAT CACGAAACAA	300
	TCAGTCATAC TACTTTTTAA ATAGAANTAG CTATGGCTTT TTTTAGTTTA TAGACTGATT	360
30	TAACTAGGAG GTCGTGTCAT CCAATGTTTG TTTAAAAGTA	400
	(2) INFORMATION FOR SEQ ID NO: 2419:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2419:	
	AGGGTGCCGA GTTAACCAAG AAAGGCCGTT GGTTGCCCCG GGTATTTTCC CCC	53
	(2) INFORMATION FOR SEQ ID NO: 2420:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO. 2420.	

	(2) INFORMATION FOR SEQ ID NO: 2421:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 152 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2421:	
	ACCAGAAGAC AATAAGTGTA ATGATGCCTG TTCTAATACA GAATCTTTAC TTTTTATTGC	60
15	CTTTTCAAGT CGTTGTTCCA CTTTCTTAAT TTCATTGTTC ATGTTTAACT TTGCCAnGTT	120
	AATCACCTTT GGTATTATCT TTTTCTTTAT AG	152
	(2) INFORMATION FOR SEQ ID NO: 2422:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2422:	-
	GTACGTTTTC ATTAGTTGTT ATATTTCCAT CTTGATAATT TTTTAAATCT TTAAAATCAG	60
30		
	CATACTGACT AAAAAATTA AAATTTCAA TTTTTGTnT AAGTTTTTGT CTTCTACATT	120
	ATCCAAAAGA ACAATCTNAT TATTTTTAG TTCAACACGA TATTTTTTCT CATTATGATT	180
35	TTTGCTAATA TCATCATAAA CTTTATTTAC AAAATAATAA CCTGTTGCCT TTTTGGTATT	240
	TCTATTAAGA TATAACACCA TGCCTTCATC ATCTAATACT CCTGGTTTGT TACTTTTTGA	300
	AAAACCn	307
40	(2) INFORMATION FOR SEQ ID NO: 2423:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2423:	
50	ATTGTGTTGT ATTTTAGACA AGACCTTCAA TTTTGGAGAT TTCACGATTT ACCACC	56
	(2) INFORMATION FOR SEQ ID NO: 2424:	

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
-	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2424:	
10	AGTCCTTTGG ATCGTCAAGA TTTCACACAT TTACANTTAT TANCTCGTGA	50
	(2) INFORMATION FOR SEQ ID NO: 2425:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2425:	
	ATGTAATATT ACAATTCAAT TAGNAAAGAA CTTTATCTTT AATTGCTTTT CGATTTCATT	60
25	CATGTCATCT TCTGAAATTA TTATCGTTCC AGTAGGATCA GAATCATTTA TTTTGCTTAT	120
	ACGTCTTTTG CTTATTGTTG TAATTGCTGA TATATTAACG TATGTATCTT TCCCTTTGTG	180
	CTTGGAATAA ACACCTATCA CTCTATACAG TTCATTAGCT TTTTGAnTTA AGTTAGACAA	240
30	AAGCTTTT	248
	(2) INFORMATION FOR SEQ ID NO: 2426:	
`35 	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2426:	
	CCTTATTATA TGACAGGTTG CCTAAACAAG TGCCTAGAGA AAAAACTAGC CCC	. 53
45	(2) INFORMATION FOR SEQ ID NO: 2427:	
<i>45 50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 173 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2427:	

	TATCCACTAA AATGATTTGC GCGTATTGTA ATATTAATCG TTCTACTTTT TATGATTATT	120
	ACAGGGAGCA ATTTGATTTA TTGGATACCA TCAACTChAA GCATAGGTGG AGG	173
5	(2) INFORMATION FOR SEQ ID NO: 2428:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2428:	
	TACTTATGTT TATGTCGCAA TAATTAATGT TCGANTTAGT GGAATTGAAC	50
	(2) INFORMATION FOR SEQ ID NO: 2429:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2429:	
	AGTCATCATA TTATCAATAA TACGCCGCGT TAAATCTGAT AAATTCATAT AGTCTGTATC	60
30	TAACTCTG	68
	(2) INFORMATION FOR SEQ ID NO: 2430:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2430:	
	TGAATTGAAA ACGGTCGGTG AAGCGCTAAA AGGTAGACGT GAAAGGTTAG GAATGACTTT	60
45	AACAGAATTA GAGCAACGTA CTGGAATTAA ACGTGAAATG CTAGTGCATA TTGAAAATAA	120
	TGAATTCGAT CAACTACCGA ATAAAAATTA CAGCGAAGGA TTTATTAGAA AATATGCAAG	180
	CGTAGTAAAT ATTGAACCTA ACCAATTAAT TCAAGCTCAT CAAGATGAAA TTCCATCGAA	240
50	CCAAGCCGAA TGGGACGAAG TAATTACAGT TTTChATAAT AATAAAGACT TAGATTATAA	300
	GAGTAAATCC AAAGAGCCAA TACNATTATT AGTAATCATG GGNATTACAG TTTTAATAAC	360

	(2) INFORMATION FOR SEQ ID NO: 2431:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2431:	
	TGACTTCGTC CAAGTACAAC TGCAGTCAGT ACCTACGAAA TCAAGATCAG CATGGAT	57
15	(2) INFORMATION FOR SEQ ID NO: 2432: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 225 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2432:	
25	ATTCTTAATC GCATCATAAT TAATTAACGG ACGCATAACA AATCCGATAA TACTATTATC	60
	TTTCCAAGTC ACTGACACTC CAAATTGATT TGCTTCnTCT ATCCATATTT GCTCAATAGT	120
	ACCATCATTT TGAGTACACA CTTTTAATTC ATGTACATCA GACTGCCTTG TATAAGATTT	180
30	GAAAAGTTTC CTAAACTGCC AATAACTGNA CTCTCGCTTC AAATT	225
	(2) INFORMATION FOR SEQ ID NO: 2433:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2433:	
	CGGCCTGACG TTACATTTCT TCAACTTCAC GTCAAAATTG CTTCGCAATA ACCAGGA	57
45	(2) INFORMATION FOR SEQ ID NO: 2434:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TTAAACGTGT CTTTAATGTG GAAGTTGAAA TATTAGTCCG TAAAAAAATG AAACTTAAAA	60
	AAAAATAATA TTTATATTTG TCGTACAAAG ATGAAAGCGA nAGA	104
5	(2) INFORMATION FOR SEQ ID NO: 2435:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2435:	
	TTTGCTAATC GTTTCACGGA TTGTGGGGAT GGGTAAAGAC TTTGCTAGTG G	51
	(2) INFORMATION FOR SEQ ID NO: 2436:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2436:	
	AAAnTTAATT TTTGGGGGC CCTTTTTTAA CCGGAAAATC CAATCGGGGC TTTTAAGGAA	60
30	TGGTTTTGGT TAACAGGCTT TGGAATTTGG TTTGGCAAAA CAATCCTTGG TTTGGGGTTT	120
	CGGTCCGGAG GGTCCTAATT	140
35	(2) INFORMATION FOR SEQ ID NO: 2437:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2437:	
45	GAAGCGGAAC CACCGTTGTT TTTCTTTCA GGTCCAATTG AATAAATGTT ATGAATAGAA	60
	TGGATAAAAA TATAATTATT TAAGTGTTAA AGTAAACCAA ATCATGATTT AAGATTATAA	120
	GAAAGAAAA TIGACTAATG TTAAAACCAA CAATCATATG GGTTGTAACG TTTATACAAT	180
50	CATCGTAAAA CTCAATATGC TTAATTTATT CAAAATGTTC GTCAATAAGT ACAATGAAAA	240
	GGAGATTGAT TITTGAATAA AAAATATCTT ATGATTGTAA TTATAATTTT AATATGATTC	300

	AAGATACGAT TTTGAGACCA TGTGAAGGGA TTAAATATAG	400
	(2) INFORMATION FOR SEQ ID NO: 2438:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2438:	
15	TCTGTTTTGA AAGTTGCAGT TTGGACAGCA CCCGATGATT AGGTGAGTCT TTTGGTTTA	59
	(2) INFORMATION FOR SEQ ID NO: 2439:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2439:	
	TTGGTnAAAC CGTTACAGTT GCAAGTTTTG AAGTGAGTTA TTTTTTGGTT	50
30	(2) INFORMATION FOR SEQ ID NO: 2440:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2440:	
40	ATTAAAAATA AATTAAAnGT TCCAGAACCA GTTAACCAGA ATATTTACGA	50
	(2) INFORMATION FOR SEQ ID NO: 2441:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2441:	
	TGCTGTTTTG GCGGTTTTTC TCCGTTTGGT TGAGTATGTG GTGTACCTTT TGTC	54

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2442:	
	GTTGTTGGGT GTGTGGTTTT GGGTGTTGTG GGTTTGGGGT CTGGGTTCGT TGGTGG	56
	(2) INFORMATION FOR SEQ ID NO: 2443:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2443:	
	GAGACAAACT AGTCGTCCAG AACGGAATTT AAGTAATCAT AATAATTACG GAAGTGCACT	60
25	TTTGTTTTTG ATTTATCATT GATGGAAATT AGAACAATTT ATCGAATGAT ATTAAAATTA	
		120
	CATAACATCA TGTTGAATGT GAAATTAGGA TTGAACATTA CCTGTnTATT TGAAAAACCT	180
30	TCAGTTTTTA AATCACTAGT ATCACAAATA AAGCGACTTA AATTCGATTC GTTAATAATA	240
	GATAATGCAA ATTTAnGTAG CCCT	264
	(2) INFORMATION FOR SEQ ID NO: 2444:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2444:	
	CCGTCTTTAG TACGTACGTT GTTTGCGGGG CTTGGGGTGC TTTCTGGGTG TTGGTCATTG	60
45	TATTGGG	67
	(2) INFORMATION FOR SEQ ID NO: 2445:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

AGCTGCATTT CTCGTGCAGG CTATCAGCAT CGATATCTGT ACCATTTAGT GATCATGC (2) INFORMATION FOR SEQ ID NO: 2446: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446: AACCAAAACA AACATTGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA (2) INFORMATION FOR SEQ ID NO: 2447: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAAATTAC ACCCATTGTT ANTACTAATA CTTACCTATT CATTGTTTA 50 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDENSS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: 40 GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (3) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2445:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDENESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446: AACCAAAACA AACATTGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA (2) INFORMATION FOR SEQ ID NO: 2447: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAAATTAC ACCCATTGTT ANTACTAATA CTTDCCTNTT CATTTGTTTA 50 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: 40 GCACAAACCA AACGCACCTI AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		AGCTGCATTT CTCGTGCAGG CTATCAGCAT CGATATCTGT ACCATTTAGT GATCATGC	58
(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446: AACCAAAACA AACATTIGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA (2) INFORMATION FOR SEQ ID NO: 2447: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAATTAC ACCCATTGTT AATACTAATA CTTACCTATT CATTIGTTTA 50 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (C) STRANDEDNESS: double	5	(2) INFORMATION FOR SEQ ID NO: 2446:	
AACCAAAACA AACATTGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA (2) INFORMATION FOR SEQ ID NO: 2447: (i) SEQUENCE CHARACTERISTICS:	10	(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
AACCAAAACA AACATTIGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA (2) INFORMATION FOR SEQ ID NO: 2447: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAAATTAC ACCCATTGTT ANTACTAATA CTINCCTNTT CATTTGTTTA 50 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2446:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAATTAC ACCCATTGTT ANTACTAATA CTINCCTNTT CATTTGTTTA 50 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	15	AACCAAAACA AACATTTGTT CGTTAAAATA TTGACACAGA ACATAAGTTC TGA	53
(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAAATTAC ACCCATTGTT ANTACTAATA CTINCCINIT CATTIGITTA 30 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: 40 GCACAAACCA AACGCACCIT AACTGCITTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(2) INFORMATION FOR SEQ ID NO: 2447:	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 25 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAATTAC ACCCATTGTT ANTACTAATA CTTDCCTDTT CATTTGTTTA 50 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: 40 GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAATTAC ACCCATTGTT ANTACTAATA CTTNCCTNTT CATTTGTTTA 50 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: 40 GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG 75 (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2447: CACAAATTAC ACCCATTGTT ANTACTAATA CTTNCCTNTT CATTTGTTTA 50 30 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: 40 GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA 60 ATGACACTTG AATCG 75 45 (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(D) TOPOLOGY: linear	
CACAAATTAC ACCCATTGTT ANTACTAATA CTTMCCTMTT CATTTGTTTA 30 (2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	25		
(2) INFORMATION FOR SEQ ID NO: 2448: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double			50
(A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (Xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448: GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	30		
GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	35	(A) LENGTH: 75 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GCACAAACCA AACGCACCTT AACTGCTTTA AATGGCTGGA CGGGGGTCA ACTGGCCTTA ATGACACTTG AATCG (2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2448:	
(2) INFORMATION FOR SEQ ID NO: 2449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	40		60
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		ATGACACTTG AATCG	75
(A) LENGTH: 71 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	45	(2) INFORMATION FOR SEQ ID NO: 2449:	
	50	(A) LENGTH: 71 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	GCAGCCTTCA AGTGTTTGCT ATTTGCTTTG GTGTCACAAG CCATTATCTA CGGTCCCGCA	60
5	ATTTAGCCCG C	71
•	(2) INFORMATION FOR SEQ ID NO: 2450:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2450:	
	TGGCGTGAGG AAAAATATCA TGTATTGTTA CACAGTCAAC AGTCTTACCA AATGATAAGG	60
	AATGCTTTAA AAACGGATTT ATCACTTCAT CAAGTTCAAC AAATGATTGA TGTTGCTTTG	120
20	TTAATTGAAC CGGGTATAGG AAGTGTATGT AATGCTTTTG ATCATATGTG GGGATATTTA	180
	AAAAAATGTG CGAATGAAGA AGGAAAGACA ACAATCAAAA CTACTTAAAA GCTGATTTTA	240
	TTTAATGGnA AAAATCGACA CCCCAACTTT ATTAGATTTT TTAGCAGAAC TTGCCTAATA	300
25	AATATGGANG TCAATATTTA CTACAAAGCC GNGTTTTTAA ACCCCAAAAA G	351
	(2) INFORMATION FOR SEQ ID NO: 2451:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2451:	
	GTGTACCGCC TCGGCTGGCG TTCGCGGTGG GTGGTGCGGT CGGTGCGTGT CTGG	54
40	(2) INFORMATION FOR SEQ ID NO: 2452:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2452:	
50	TGCCATTCCA ATGTTACCAT CGTCTTGGTA CTACTATATA CTGCGGCTAT	50
	(2) INFORMATION FOR SEQ ID NO: 2453:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2453:	
10	AGACGTGTTT CCACGGTATG GGATAAATGA AGCACCGACT GATAAATCAA TATAGCCTCG	60
	TGTTTTTAGT TTACCCGAAC TATCCCTTGA TAATGATTGT GACATCTGCG GATAATATTT	120
	CATTITCTTA GATATCGTCG AAATATCACC GATTACTTGA AGTCCATCTG TCGTAAACAA	180
15	TTCAATTCTG CTTTGTTTGT TTTTACTTGG GGCGTATGTC ACTTCGGCAA TATATCGTCT	240
	AACTTCAGGT GTCATTTCAG ATAACGCCTT AATCATATCA TCTTCTTTTG TACCTTTGAA	300
	ACCATCCATG ACAGGTGCAT CATTAATTTT GACATCATTT GAACCTTTAA GCAATTTACC	360
20	ATTTTCTAAT AAAGGTAAAT ATTTACCTTT ATATTTCACT	400
	(2) INFORMATION FOR SEQ ID NO: 2454:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2454:	
	AGAAAGAAAT ACCATTTGGA GATAGAGACT CGTGTTATTT CTTAGCGATG GGAGATTTTT	60
35	ATAATAAAGA AGATAGNAAG AAAATTATCA AAGGTTATGA AAATAATTAT GGTAGAGGTA	120
	TTAATATTCC TCGAGCACAT AGTATATATT TATATG	156
	(2) INFORMATION FOR SEQ ID NO: 2455:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 77 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2455:	
	ACTTAGGTGA TATGAAATGT GGTCCGCGAC GATCGTCAGT AACAAAATAA CAGGCAGTCA	60
50	TTGGATTATG TTTAACG	77
	(2) INFORMATION FOR SEQ ID NO: 2456:	

5	(A) LENGTH: 65 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2456:	
10	AGTGAAATCG CTAAAGAAAA AGATGGAACC TCGGTATCTA ATACACAACT TCTTGAACGT	60
	TTTTA	65
15	(2) INFORMATION FOR SEQ ID NO: 2457:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid	
20	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2457:	
25	TATCAATAAT TGCCACTTGC AATGACTGAT TAATTTGAGG TGCACATAAG CCAG	54
	(2) INFORMATION FOR SEQ ID NO: 2458:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2458:	
	AATTTTATTT CGAGATTCTT CAATATAGAT GTTTCTTCAT TAATTTGATT CTCTAACTCT	60
40	TGCTTACTAC CTAATAGTTT ATCTAATTCA GCTTTAGCTT TTTCATTTTC TTTAATTATA	120
	TTAATTTCAT TATTTATGTT CGTnATCGTA TTATTTAGTT CGATAA	166
	(2) INFORMATION FOR SEQ ID NO: 2459:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2459:	
55	CCAATGATTA AGCAATACAA TCGTCACTAA AATTACACCG ATAATCTGAA TCATCGTCAT	60

	(2) INFORMATION FOR SEQ ID NO: 2460:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2460:	
	AAATCAAAAA AATGTATAAT GAAAAGAAAA AGAAATTTGG AAAAAATTGG GAAGACGCTC	60
15	AAAAAGCTGG AAAAGCTGTA GGTGAAGATT TGAGTGTNAA TGG	103
	(2) INFORMATION FOR SEQ ID NO: 2461:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2461:	
	TTTATATCAG AATAGAATAG TAAACTAAGG CATTTGGAGA ACTTATTCCA TG	52
30	(2) INFORMATION FOR SEQ ID NO: 2462:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2462:	
40	CAGCAGCGAA TTTTTGACGT CCAGTGTAGA ATGGATGTGA ATCAGATGAA ATATCTAAAC	60
	GAATAACTGG GTATTCTTTT CCATCTTCCC ACTCCATCAT TTCTGAAGAn GTT	113
	(2) INFORMATION FOR SEQ ID NO: 2463:	
<i>45</i> <i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 255 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2463:	

	CTAACATAAT TGTTAACACT AAAATATTTA CTACTTTTAG AACTGTGCGA TTAAATACAA	120
	TTGTCAGTAT TGTTATGACT AGGCTAACGA TACATAAAAT AAAGAAACCG TTAAAGACTA	180
5	AAATTAAGCG ATCGATTCCT TGTTGTAAAT CATTGATATT ACCCAAATTA ATAnTTAATT	240
	GGATGCATTT nCCAA	255
	(2) INFORMATION FOR SEQ ID NO: 2464:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2464:	
20	TATGCGACAA TTCGAAACAT TTTATATGCA AAAGGTTATA CAACAGAGAA TGTTGATT	58
	(2) INFORMATION FOR SEQ ID NO: 2465:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2465:	
	TGAATTTCAT TACCACATAT CGGACATTGA TCTCCAATAT TTACAGCAGA TTTAATTTCA	60
35	CTTAT	65
	(2) INFORMATION FOR SEQ ID NO: 2466:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2466:	
	CGTGACCTTC AAAGACCGAA CGAGAGAGTT GAAGAGCATT TGCGAAGGCC A	51
50	(2) INFORMATION FOR SEQ ID NO: 2467:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 55 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2467:	
	AGTTTGTTAA GTTTTAGTTT ACTAACTTTT CCATTAGATA TTATTAATGA AAAAC	59
5	(2) INFORMATION FOR SEQ ID NO: 2468:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2468:	
	TTGTTGGTAA GGCACTTCTT AAATATCAAC AACGCGATGA TATTTTCATT GGTACAAAAG	60
	TAGGCAATCG TTTAAC	76
20	(2) INFORMATION FOR SEQ ID NO: 2469:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2469:	
	CTTCTATAAT AAAACCATCT GCAATTAAGT CTTCAATAGA CGATGGATTT CTATTATGTA	60
	TCAATGCATA C	71
<i>35</i>	(2) INFORMATION FOR SEQ ID NO: 2470:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2470:	
40	CTTCGTCATT GTATTCGAGC GCCTGTATAG CTTGCTCAAA TGATGCATAA AT	52
	(2) INFORMATION FOR SEQ ID NO: 2471:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2471:	
5	AGAGGTTATG TTGATGTGCT TTATTTTCAT CAATGTCATT AACACAATCA TATTTCTTCT	60
	GTTAATGCAC TGTATTATAT TCAAACGCGC TATCGACAAT TAATTTGn	108
	(2) INFORMATION FOR SEQ ID NO: 2472:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2472:	
	GTCCCCAGTT GATATAGGAT CACAGTTTAA TATACTTGGT GAGATAGTAA TACTATTATT	60
20	AATTCAAATA GGTGGTCTGG GTATCGTGAC CGTAACCCTA TTGACACTAG TATTTTTAAA	120
	TAGAAAGATA TCAATGAAAA ATAGATTCTT GATTATGGTT ACATGGAATA TTGACGAACC	180
	TGGTGGTGTT ATTAAGCTAA TTAAACACTT GGCTATTTAT AGTTTAGTCA CTGAATTAAT	240
25	TGGTATGATT TGTTTGTGTT TATCTTTTAT ACCAAAATTT GGTATAGGCA AAGGTTTATT	300
	TTTAAGCTTA TTCACATCAG TATCAGCTTT TAATAATGCT GGGATTTGCC CTTTTTAAGA	360
30	ATAACTTAAT AGATTATTCT AGTGATCCAA TTGTCATTAT	400
	(2) INFORMATION FOR SEQ ID NO: 2473:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2473:	
	CTTCAAATAC TAAATCAGCG TTGCTAAACA TACCGTATAC ATTTGATGGC GTTGATAACG	60
	CGTCCTGCGC TTCTGTTAAT AACTTTTCAG TTTCAGCATC TAANATATGA GGACGTTTTT	120
45	CATTAATCAA CTTCAAATCA AATGCGA	147
	(2) INFORMATION FOR SEQ ID NO: 2474:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2474:	
	CTTTAGGTGC TTGTGGTAAT TCTAATTCAC AAGATCAAGG TAACAAAAACT GAACAAAAAA	60
5	CA	62
	(2) INFORMATION FOR SEQ ID NO: 2475:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2475:	
	CCTTTAAAAT CATCTAGAAT ATCTCTTGAG AAAAATTCGA AATCTACAGT	50
20	(2) INFORMATION FOR SEQ ID NO: 2476:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2476: ATAGTGGTTA GTCAATGTAA TTAAATGAGA ATAGAATGGT GATTTCATCT TAGCTTGATA	60
	ATTAGCAGAA TCTTTAAAGA AAATTTTGTC TTnCAAGCCT AAGTTTACAA CGT	113
35	(2) INFORMATION FOR SEQ ID NO: 2477:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2477: CGTAACTAAC TCAATTTACT GAAAAAATCG CTTGCGATGC AATAGCATTT G	51
	(2) INFORMATION FOR SEQ ID NO: 2478:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2478:	
	TAGTTGCCGC TACGTTTATA CTCGTATTAA TGAAAAAAC TAGCAAAGAA TCTAAAAAAG	60
5	(2) INFORMATION FOR SEQ ID NO: 2479:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2479:	
	TCGGACATGA TGGTAAAACC GTATTGGGTA TTCGCACTGA CACCTTAAGG GA	52
	(2) INFORMATION FOR SEQ ID NO: 2480:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	. , , , , , , , , , , , , , , , , , , ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2480:	
	TTCCTAATTA AGGATTAAAA AGGGTTTCCT AATTAGATTA nAATTCCGGG ACCTGGATGG	60
30	AAAAAAGTTT TTAACTTTTC CATCTGGTCC CGTTTTTTGA TTTTCGATAT AAAAAAAGCG	120
	CAATTATCTC TAT	133
35	(2) INFORMATION FOR SEQ ID NO: 2481:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2481:	
45	AAATGTTTTG GAAGAACGTA AGANAAATCA ATCTGAAACA AATGCACGAT ATGAAGAAGA	60
	ACAAGAAAAT TTAATGGAGC TTTTAGAAAA TATATCAAAT GAGATTTCTG AAGCTCAAGA	120
50	TACTTATAAG TCTCTGAAAA GTAAACAAAA AGAACTCAAT GCTGTCATTC GTGAACTTGA	180
50	AGAACAACTA TATGTTTCAG ACGAAGCACA TGATGAAAAA TTGGAAGAAA TTAAAAACGA	240

	TACTATAGAA GAGAATGAGG CTAAAAAATC CAGACAGGTT CTCGTTAGTT GGAGTTTTGA	360
	GCCATTGAAA GTATTCnGGG GGCCAATTAA AACCGCCAAA	400
5	(2) INFORMATION FOR SEQ ID NO: 2482:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2482:	
	AAGGTGCATA GTCAACAACA TTTACAGCAT CATTTGATTC TGAACTAACC GAAACATTAT	60
	ACTTACCG	68
20	(2) INFORMATION FOR SEQ ID NO: 2483:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2483: ATGAGCCNAC ACAGTGGTGA GGTAATCAAC GGTACAGTGG TTAGTGTGAT	50
35	(2) INFORMATION FOR SEQ ID NO: 2484: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2484:	
	CGGAACTCGT CGAATAACTT TTTAGATTCT TCGTTAGCTT TTACATTAGC GAATGCTTCT	60
45	nTGATTGCTT TGTATTCTTC GCTTTCTCTT AAAGCTTGTT CTAATTGATT TGCATAATCA	120
	TATAAATTTA CTGCCATGGT TATAGCACTC CTTGGTmGTG ATGTTTATTA AAACGTTCGA	180
50	TATTACTTTA CCACATCTCG CTTTTTTAGA CAA	213
	(2) INFORMATION FOR SEQ ID NO: 2485:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs	
5 5		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2485:	
	GACCAAAATT ATCTTTAGCA CTTATAGGTA TCTTTTTAAT ACTTTGTGAG TTTTTCTATG	60
10	GCATTCCTTT TTTAGGTGCA ACGTTTATTT TAAGTTTTGG ATGGCAGCCT TTACTCTTTA	120
	ATGCATTACT TTATCTAATT CTTACTATTA TATTATTAGT GAATAGACAA AATGCGATTA	180
	GACCTATAGC GATTATTCCA ATATTTGGTA TAGTAGGTAG TTTTTTAGCT ATTATCCCCT	240
15	TCTTAGGAAT TTTGATTCAT TGGATTTTAT TTTTCCTAAT GATTCCAnTT GTCCTAGTTG	300
	GATTATCAGC GCCAACCTAT ATACCCAATA AAAATGCTCG TGnCnTTTTA CACACAATAC	360
	AAAGATGGAC CTAGAG	376
20	(2) INFORMATION FOR SEQ ID NO: 2486:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2486: TTGACCTTGA CGGAAACTTT TTTCCAAGTT CTAAAAGTGG GCCAAAATCT T	51
	(2) INFORMATION FOR SEQ ID NO: 2487:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2487:	
	GAATTTTGGC ATACACATAC ACTTTAAAAG ATATTATTGA AATTACAGGT GTAACTAAAA	60
45	GAACTTTACA TTATTACGAT GAAATAGGAT TATTAGTTCC AGn	103
	(2) INFORMATION FOR SEQ ID NO: 2488:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2488:	
	AATTACATTA GCACCAATCC ACACATCATT TTTAATTGTT GTACGGCTAG GTTGGTCATT	60
5	AAAGTCTATA AACGTTTnCT TTAAGTTAAA TGGATTATTA TTTAGA	106
	(2) INFORMATION FOR SEQ ID NO: 2489:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2489:	,
	TGAATTTGCT TGAGTCGTGC TGCTGATAAC AATAAAATTG CACATGGATA AAGAATGACG	60
20	С	61
	(2) INFORMATION FOR SEQ ID NO: 2490:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2490:	
	GCTCGTATGA TACAAATTCA TAATCTGAAA CTTCTGTCGT TTGTCGAACA TGTGGTAACC	60
35	AATTCTTCAA GATGCTGTAT ATTTCTGCGT AATTTTCGTC ATTCCTGAAT AACCTCAACT	120
	TTAAAATGTC ACCTTGTTTG ATATAACGCA TTAAAAAAATA TTGATCTATA TCTCCCTTAT	180
	CTTTAAGATG TTTTACAAAT GGATACAAAT TGTCGATGAT AAATGTATCT TGCGATGGCT	240
40	TATCGATATG AATATGTAAT GCAAACCAGT CTTTGTCATA TTCAATATCT GTATTTTAT	300
	ATTTTGGAAT TTCGATTTCG GGTCCTCGAT AAGATGATTT TTTATAAATT GGTGTAACAA	360
	TTTCATACAC ATGATCATTC TTTGATTGAG GGAAAAATGA	400
45	(2) INFORMATION FOR SEQ ID NO: 2491:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GACTGTTTTA TCGCAACTAT TTACACCTAT ATTATCGTTA GTAGGACATC TCGTCGG	57
	(2) INFORMATION FOR SEQ ID NO: 2492:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2492:	
15	CATTGAACTT GCTTTTGACG TACACCAGTA ATCAATGCCA TAATACGATC CGG	53
	(2) INFORMATION FOR SEQ ID NO: 2493:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2493:	
	AATACAACTA ACATACACTT ACCCATGTCC GAAGTCCnTG TTGAGGAATG	50
	(2) INFORMATION FOR SEQ ID NO: 2494:	
30	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
33		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2494:	
40	GCTGTTTAGC TTGCTCAAAT GATGCATAAA TATCTGATGC AACTATCATA TCAGCTAGTT	60
	CATCA	65
	(2) INFORMATION FOR SEQ ID NO: 2495:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2495:	

	ATTAAGCTTT CTAAATCATT GATGTTAGGA GCTAATGTGC TCGATAAGCA GAGTAAAGAA	120
_	GAATTGCTTA AACAAGCTAA ACATATAACA GGTTTAGAAA ATCCTAATAG TCCTACACAG	180
5	TTATNGGCTT GGTTAAAGGA TGAACAAGGA TTAGATATAC CTAATTTACA AAAGAAAACG	240
	GTTCAGGAGT ACTTAAAAGA AGCAACAGGA AAAGCTANAA AAATGCTAGA AATTAGATNG	300
10	CAAATGTCTA AAACCAGTGT GA	322
	(2) INFORMATION FOR SEQ ID NO: 2496:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2496:	
	ATCAGTGTTA ATTCGCACGG AATTTCCTTC CATTAAACTA ATCCGATCAT ATAATGGAT	59
	(2) INFORMATION FOR SEQ ID NO: 2497:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs	
	(A) DENGIN: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2497:	
35	CTAATTAAGC CAAAAGGGGA AGGGTCCACC AACCCTTGGT TTCCCCCCAT TGCCCGGAAA	60
	CCACCAGNAA GTTTAAAGCT TCCCTTTAAG CCGTCCGATG GGTAGTCCGA ACTTTACCGT	. 120
	TCCCGC	126
40	(2) INFORMATION FOR SEQ ID NO: 2498:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2498:	
50	CACTTTGCGC CAGTTTTCAG TTGAGTGGCA TAGAGTCTGC TCATCAGTTC CTTGCTCC	58
	(2) INFORMATION FOR SEQ ID NO: 2499:	

5	(A) LENGTH: 90 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2499:	
10	TCATGATGCA GACGCAACAG CATTTGGTTA TGAATATGGA CAAATACCAC AGATGCCGGT	60
	AGCATTTCAA TCAAGTAAAC CTTTAATAGA	90
	(2) INFORMATION FOR SEQ ID NO: 2500:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2500:	
25	TGCTCAAAGT CGTGTAGACA GCCAACTAAT GCATTTTCAA GATCAGTGAC ATCTCCGACA	60
25	CCAAAGAAAT CACCGAATAT TTTTGCATGT TCGATTTTAC CTCGTTTAAC ATCAAACTTA	120
	ATTTGTACAA ATCCTTTTTC AAATTTTTCC TCGCGTTCAA AGTTATATTT AGGGTTTCTA	180
30	CCATAATTCC ATTCCCAAGT TCTATATTTG TCGTTACTTA ACTTTTCAAT ATTnTCCCAA	240
•	TCTTCATCCG TTAATTGATA TTCTTCnACT TCAGTTTCGC CAAAGATAGT TT	292
35	(2) INFORMATION FOR SEQ ID NO: 2501:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2501:	
45	GGTGTGTGTA GAGGTCGAGA GTTGGGGGGG GAGTAACGTG GAAGTTGCCC GGACAGCA	58
	(2) INFORMATION FOR SEQ ID NO: 2502:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ATACGGGAGG TATCAGCACG TACGTGCAGT CGGTAATGGA TCnAAATACG	50
	(2) INFORMATION FOR SEQ ID NO: 2503:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Toronosi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2503:	
	ATCCCCACTC TTTTTTAAAT GATTTAACCA TATTTTATTT	60
15	AGTGTATCAA TAAATTTATC ACATGTCAGA AAGTATGCTT CATCTGAATA CACCAATACT	120
	CTCATGAAAC TTATTAAAAA TTACTCTCTC AACGTAAAAN ACCATTCAAA TTCATGAATG	180
20	GTTTGGAAGA ATGATTCATT GTTACGCTAT TTAATCACTA CATCTTAATT ATTGTTGCTC	240
20	TAAACGATTA CGCTTACCAT TTAAGAAAGC ATAAACGAGA CCTACAAAAA TACCGCCACC	300
	GACAAAGTTA CCTAAGAAAG CAAAAACGAT ATTTTTTAAA ACGTGTAACC ATGAAACTGC	
25	ATCAAGGGTA AAGAATACCA TACCTGCATA TAGACCTGCA	400
	(2) INFORMATION FOR SEQ ID NO: 2504:	400
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 355 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2504:	
	ATTATCTATG AATAAAATTT ATAATAAACA TATATTGAGA AATTCTCTAA TACCTATTAT	• 60
40	TACATTTTTA GGTGCTGATA TTGTAAGTAT TTTAGGTGGA GCCGTGATTA CGGAGACTAT	120
	CTTTTCATAT AACGGTATCG GTAAATTATT TTTAGAATCG GTAATAGGCC AAGACTATCC	` 180
	ATTAATGATG GCATTAACGT TATTTTTCTC ATTTTTAGGT TTACTGGGTA ATTTGATTTC	240
45	TGATATTACT TATGGATTTA TAGATCCAAG AATTAGAAGT AACTAGGGGG GATTAGAATG	300
	CAAAATAAGT CAAAATCGCC TTTnAAAATT GCATTTTCTA AATTNATTCA TANTA	355
	(2) INFORMATION FOR SEQ ID NO: 2505:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 254 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2505:	
	CCGTTAGTTC CATACCATAT TTTTTTCTAT AAAATAATTT AACATCTAAT TGCCTTTCTA	60
5	ATTTTCAAT AGGGGTAGAT ACAGTTGACT GTGAATAGTT AAGTAACTCT GATGCTTTAG	120
	TAAGGTTCTT TGTTTCACTA GTTACTAAAA ATGATTTTAA AATGTTTAAG TTCAAAGTAG	180
10	TACCTCCTTT AGGGTTCCCT TTTATCGAAT CCTGAATTCT AAGAATTCTG ATTTAATAAT	240
10	AATATAINAN ATAT	254
	(2) INFORMATION FOR SEQ ID NO: 2506:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2506:	
	AACTCCACCG TGTAGTTGCG CTTCATCGCC TTGAGGATGC GATTGGCGCC GTGCTGCGCG	60
25	GCACGTGCAG ATAGTGCGAG CACTTGGGCA GATCGCGCAC CGCCTCCAGC AGGTCGTCGG	120
	TCATATCCTT GGGATAGTTC GTTACGANTT GGATCCGGTC GATGCCGTCG ACATCCGAGA	180
30	TGCGGCACAG CAGGTCGGAC AGTCGCGTTG nCCGCTGGCA GTGTCGTAGT GGTAATGTTT	240
	CACGGTTTTG ACCTAGCAGC GTTCACCT	268
	(2) INFORMATION FOR SEQ ID NO: 2507:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2507:	
	AAAAGTGGCT AATATCATCA GCAGAATGTA TAACATAATC GAATTGCAAC CAGCGATTAT	60
45	ACCTTT	66
	(2) INFORMATION FOR SEQ ID NO: 2508:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2508:	
	ACCTCCGCTT CAAATGTCAT TGATAGACAT TTAAAGCGGA GGCATGTACA TGT	53
5	(2) INFORMATION FOR SEQ ID NO: 2509:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2509:	•
	ACCCTATGAN AGATGAAGTN ATTAACCAAA AACCACGTGT TGTAATATTA	50
	(2) INFORMATION FOR SEQ ID NO: 2510:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2510:	
	TTAACCTATT ATATTAATTT TAGTATCAAT TCTTTCTCCA GTTCCTGCGT CATTTTT	57
30	(2) INFORMATION FOR SEQ ID NO: 2511:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2511:	
	ACGTGTTCAT AACCCATAAA GGCGAATATG GTAACACCGA ACATCATGAC A	51
	(2) INFORMATION FOR SEQ ID NO: 2512:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	GTANAGCGGT CCGCGCTTAA AGCGCTTGCT AACTTCGAAC AATGAATCTG CGGAACATCT	60
	TGCGAATCCA CGAGATGATC TCATATGACG GGCAGCGAGG T	101
5	(2) INFORMATION FOR SEQ ID NO: 2513:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2513:	
	GGGTAATGTA ATAGTATTCA TCTACATCAT CTTGATCATC GTAATGCTGA TTGTACCCTT	60
	CTAAATC	67
20	(2) INFORMATION FOR SEQ ID NO: 2514:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2514: CCCGTCGTTT TCGTGnTTTT CGCGGCGTGT CTCCTGTTCG CGCCTCTACT	50
	(2) INFORMATION FOR SEQ ID NO: 2515:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2515:	
	AAGAAAATAT CTCTTGAATA CTGATCGATT GCCATCGAAA AACACTGTTA AATCAAGTTG	60
45	CCCAGTCCAT TGTTGTTCAT CCATTATGAT AATCCTTTGA GTAAAGTGTC GCGTTCAATC	120
	CAATCGATAA CTTCATCCAA ACCTTCGTCG GTTTTTAAGT TAGTAAAAGT AAATGGACGT	180
	TTACCACGAA ATACTTTAGT ATCTTCAGCC ATTTGTTCTA ATGATGCACC TACATANGGA	240
50	GCTAAATCAG TnTTGTTAAT TACAAAGACA ATCTG	275
	(2) INFORMATION FOR SEQ ID NO: 2516:	

5	(A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2516:	
10	CTGCACCACC AATAACGTAA ATACTGTATA TACTAGTAAT CGCTAATACA CCGATATTA	59
	(2) INFORMATION FOR SEQ ID NO: 2517:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2517:	
	TCTGCTACTA CGTATACGAT AGAATGGATT TCTTTTTGAA CCTAAACGTG TTAAACGAAT	60
	TTTAACTGCC ATTTATAAAA TCTCCTTTAA GTCATGTTTT AATTTTTATT TTCTACAng	119
25	(2) INFORMATION FOR SEQ ID NO: 2518:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2518:	
	ATTTCCTTTT AAGTTTTTAA AAATCCAAAA TCCTTGTGGT AGGGCCATGA AAGGGTTGGG	60
	(2) INFORMATION FOR SEQ ID NO: 2519:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(wi) CECHENCE DECORIDATION, CEC. ID NO. 2510	
	(XI) SEQUENCE DESCRIPTION: SEQ ID NO: 2519:	
50	ATAGAAGTGA AGCACGTAGA TTGAAACGAT GGTTAAATAA CGAGAGACAT TTAGAAAACA ATAAAAATGA GGAATAATCA ATGATACATG GAATTGGTGT AGATTTAATC GAAATCGATC	60
	GAATACAAGC GTTATATAGT AAGCAACCAA AATTGGTTGA GCGGATTTTA ACTAAAAATG	120
	GENTALING GITATATAGE ANGUNG ANTIOGITAN GEGGATITIA ACTAMAMATG	180

	GGTTTGCTAC AAAAGAAGCG TCAGTAAAGC ATTAGGCCCC GGCCTnnGGA AACA	294
_	(2) INFORMATION FOR SEQ ID NO: 2520:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 145 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2520:	
15	TTTTAGGCCG AAGANGTAGT AATTTCCGGT CCTTTAAGGG GCGGGTGGTT AACCATGGCA	60
	ATTAATCCCA GGGATGACCT TACCTAATAA CCACCTAATA ATTACCCGGA CCAAAGGTGG	120
	AAATAATCCC TCCGGTCCTT CCCGG	145
20	(2) INFORMATION FOR SEQ ID NO: 2521:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 169 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2521:	
50	TTTTAGTCAC CAAAATTCTC GCATTTAACT GATACGAATG TGCAATAACT AAAAATCGAT	60
	CTAATAATTG CGTTGAAAAA TTTGGCTCGA CAGCACTCAT TACAATTACn AGTGTATCTA	120
35	TATTACTTAC AGGTGGTCTT TTCAACTCAT TTTCCCGCTC AAACACTTG	169
	(2) INFORMATION FOR SEQ ID NO: 2522:	
	(i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 88 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2522:	
	ATCCAGCCTT TCAACAAATA AATCTGAAAT TCGATGTTCT AAAATTTCTG CTTCTTGATG	60
	TACTTCTTCC CAATTATATT TCAATATT	88
50	(2) INFORMATION FOR SEQ ID NO: 2523:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2523:	
	CAGTAACATC AATCTGTCCT GTAAGCTTGT GGTACTCCGA TACAACCATA AGTCAACGCA	60
	CCACCAAAAA CGCCTTGGAG CCGTTCTACT TATTAGTCCA AGTTTAGACA TTGAAATACC	120
10	AACAACTTTG CANTCCATAG TATCTGAAAA TGTAGACATT GCCTGCAATA AATTTAACNC	180
	ATCATTTTA TTATGTGGCA TTACTGCTAA TTTAACGTAT TCTGGGTT	228
45	(2) INFORMATION FOR SEQ ID NO: 2524:	220
15	(i) SEQUENCE CHARACTERISTICS:	
20	(A) LENGTH: 119 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2524:	
	CTCATCCATA GCGCTGGTAT TAGTATAGGT GTCAAACCAT TAGCGTATAT CATATCTTCT	60
	GGATGTnCTC ACATATTCAT AGATGCACAT TTTACTTCTC TCGTACCTTA GTACTGGGA	119
30	(2) INFORMATION FOR SEQ ID NO: 2525:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs	•
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i>35</i>	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2525:	
40	TACCAATATT AAATTTGAAC ATTATAGTTT GACCATCATA ATCTATCTTC TCTATTTCAT	60
	TATAACTAAT ACTTCTATAA TAAAATTGGC CATTCATATC TACATTCATA ATTAATCTTT	120
	CATTTGTTGC TATAAATGCC CCTTCAAATT CATTCTCACC TTGAACTTGA TACTCAATTA	180
45	TTCCTAGCAC TGACGGACCC TTTTTTTCAG TTGGAAATAA ATCATTTGGA TTCACATTAT	240
	CTAAAATCAT AATATCCCTC CCACTTAAAA CTATAAACTA TTCTTCATAG GTATATGAAA	300
	TACAAGTGAT TAACTATTNA TNATNAAGCT TAACTTGTAT TCCCTTTTCA AGATAAT	357
50	(2) INFORMATION FOR SEQ ID NO: 2526:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2526:	
	CACGCGTCCG GCCACCTGGA CATGGCCGAC CTAGAAGCCA AGCTGCANGA GGCCCAGAAG	60
10	CATCGGCTGC GCCTGGGTGG CCACTGATGG GGCCTTTTCC ATGGATGGCG ACATCGCACC	120
	CCTGCAGGAG ATCTGCTGCC TCGCCTCTAG ATATGGTGCC CTGGTCTTCA TGGATGAATG	180
	CCATGCCACT GGCTTCCTGG GGCCCACAGN ACGGGGCACA GATGAGCTGC TGGGTGTGAT	240
15	GGACCAGGTC ACCATCATCA A	261
	(2) INFORMATION FOR SEQ ID NO: 2527:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2527:	
	CTNTAGAGGA TATGAGTTCC TCATCATAAG AATTTCTGGA TCCTTAATAG ATCTCTTGCT	60
30	ATATATAATG TAATAGAAAC ATCTTTTAAG GATCCAGAAA TTCTTAGA	108
	(2) INFORMATION FOR SEQ ID NO: 2528:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2528:	
	TTTTAAAATA CTTGGTAGAA GTTGGAATGG ATTAATCATT AATTATCTCT CAAGATGTAA	60
45	TGACTGTTCA GCACACTTTT CCGATATGAA AAGAGATTTG AANACAATA	109
	(2) INFORMATION FOR SEQ ID NO: 2529:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GATTAAATTT GTTATACCTG GCTTGTTGTC ACGATCAAAT TTAATAATAC CATCTGAATC	60
	AGTTACTGCG CTTTTAATTT TTTTAGCTGC AACATTCGGC TCGTCTAATA ATGAAATnGA	120
5	GTTTTTAGCA TTATCATCAC TCTTACTCAT	150
	(2) INFORMATION FOR SEQ ID NO: 2530:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2530:	
	TTCTTTTTGG CCAGTGGCAG GAAGTACGGT CTTATTTGGT GTTATGTTAA GAAGGTATTC	60
20	CCATTTATTT ATCGTTAAAT ATGNATATAG TATAGTAATT TTAATTTGTT GCATCATAAT	120
	ACTAGGT	127
	(2) INFORMATION FOR SEQ ID NO: 2531:	
25 30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2531:	
35	CACATAATGA TTCGAATTAT TGTTTTAATT AAACCTTTTT CACATATGTA TAAATTTTAn	60
	AGAGCGCATG CGTGAATATT TTCATTTGAT TCAAAGGCAA AAGATAGCCT TATACTCTTT	120
	TC	122
40	(2) INFORMATION FOR SEQ ID NO: 2532:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 126 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2532:	
	AAATAATAGA GCAATTGGCA CATGTAAGAA TGCAAATTGA CTATGGCATC CAGTATTTTG	60
	GTCACAAATG GGTTGTATAT GAGCATGTTG AAAAATAAGT CTTATGnTAA ACACTTAGTA	120

2265

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	(2) INFORMATION FOR SEQ ID NO: 2533:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2533:	•
	GAGAGCGGCC GCGTGTAAGG AGAGCGGCGT TCGTTCGCGT GACGCGAGTG TGGTTCGCGA	60
15	GAAGNGGACC AGAGTTCCCG ATCGAGGCTG TTCGGGTAAA T	101
	(2) INFORMATION FOR SEQ ID NO: 2534:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2534:	
	TTGCTCATTA AAGATTATCC CAATCAATAT CATCTATATT TGTTGTACCA CTATTATCTT	60
	TTTCTCTTTC TCTTACTTTG TnCATTGTAC CAGTAGATTC AAGATATATT GT	112
30	(2) INFORMATION FOR SEQ ID NO: 2535:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2535:	
	ATAACGAATC CAAAAATATA GAGAATGACA GTGAAACTTA AATAGGACTC T	51
	(2) INFORMATION FOR SEQ ID NO: 2536:	
<i>45</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2536:	

	(2) INFORMATION FOR SEQ ID NO: 2537:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 158 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2537:	
•	GGATGTACCA CCAGCATAAT AAACAACTTC AAATGGATTG ATAAAGAAGA NACCAGCAGA	60
15	GATAGGTAAT TCATTACCAT GTTCTTCTTG TAGACGTTTA CCTTCTTCAA TCTTTTGCTC	120
	ATTTGCATCA AGTTGTTGTT GTAAGTTATC TCGCTTGT	158
	(2) INFORMATION FOR SEQ ID NO: 2538:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2538:	
	TATATTCATT AAATCCACAA AGCGGTCCCG TATAAACATG GGTTTCCATT	50
30	(2) INFORMATION FOR SEQ ID NO: 2539:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2539:	
	AAAGTATACA TATCACTCAA CTAATCAATA ATCATACTTA CCTTCAACAA ATTCTTTAAC	60
	ATGCAGTGTT ATCCCTTGAT AATATGGATA TTTmGTTAAT CTA	103
45	(2) INFORMATION FOR SEQ ID NO: 2540:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CAATCAATTT GTCTATCTGT TGAGTGGCAA CCTCTAATAA GCCTTTTATA TTGTCA	56
	(2) INFORMATION FOR SEQ ID NO: 2541:	
5 10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2541:	
		60
15	TGGAAATAAC GAAAGTATTA TTAATTTAAA GCATCTTTCT CCCAATACTT TAATGAGTGA	60
	TATTGTTTAT ATACCGTATA AAACACCTAT TTTMGAGGAA GCAGAGCGCA AGGGAAACCA	120
	TATTTA	126
20	(2) INFORMATION FOR SEQ ID NO: 2542:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 201 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2542:	
00	ATCAGTTTCT TCAAAAATAA CTGAAGTATC TGATGCTGAA AATTGGAATA GTTGATGGGT	60
	CGGGnTATTG ATTTTTATCT GATGTAAAAA TCCATAAGTG CCATAAGATG TATATAGTTT	120
35	CTTCATATGA AAGGTCCCCC TTATGTnTTT ATTTATTATA CGATGATAAA CTAGTCATTA	180
	CCACTATTAA TAATTGATTA A	201
	(2) INFORMATION FOR SEQ ID NO: 2543:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2543:	
	GAACTTTATT ACAGGAATAG ATAAGCACAG TCGTGTTACA CAGACGCTAA ATGCGCGTTC	60
50	GTATG	65
	(2) INFORMATION FOR SEQ ID NO: 2544:	

(A) LENGTH: 102 base pairs

5 ·	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2544:	
10	AGCTATTAAT GGCGCTATAA TTGATACAAT AGTTATGATT AATAAAAAA TAACCGATAA	60
	CATTGCAATT TTATHATGAA TAAATTTAGG AAATGCAATT TT	102
	(2) INFORMATION FOR SEQ ID NO: 2545:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2545:	
25	AATCTACATC CAGCATGATC NACATCANAG CNGGATTCAC CCTTACTTCA	50
	(2) INFORMATION FOR SEQ ID NO: 2546:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2546:	
	AACCATTCAA CACACGACAC TAAAGTGCAG TACAATCCTA CAAAACGATT GTTTTTATCG	60
	GGTGGTCTAA CCATTGAATA AATAATGAAT AATGGTAANA	100
40	(2) INFORMATION FOR SEQ ID NO: 2547:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2547:	
	ATTGAAAATC TTTTATCATT TCATACGTGT GCATAATTAA AAAGGTGAAA CCTCTTATTT	60
	TGAGATTTCA CCTTTTTTAT TGTTAATTTA AATTTAATTT	120
55		

	(2) INFORMATION FOR SEQ ID NO: 2548:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2548:	
	AAAGTGAAAA TTGGAGGTGT AATTTTGACT AGAACTTATA ATATTATTGG TATCCTTTCT	60
15	TGTCTTATAT CTTTTATTAT TATGGCGTTA CCAATNATTT GGTACACAGC TTCAGCATTA	120
	TGGTTCTTCC CAGGTGCAAT CA	142
	(2) INFORMATION FOR SEQ ID NO: 2549:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2549:	
	CCCAACCCTA ChAACGACAT TACACAATCA GTAACAGATC GGTATTAAGA CTGGATATCG	60
30	TGGCATCTGT TGAGTTAATA TCAACAGTCG TCCAGAACTC G	101
	(2) INFORMATION FOR SEQ ID NO: 2550:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2550:	
	TGTAACCATG ATTTAGATGA CTAAACGTGC TTGCCAACAT GCTTCATCCA ATGCCGAATC	60
45	CTTTAGCTAC AT	72
	(2) INFORMATION FOR SEQ ID NO: 2551:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2551:	
	CAGTAAGAGG ACAAGGCTAT AAGGTGGAGA ATCATGTTTA AAACACTCTA TGCTAGAATT	60
5	GCGATTTATT CCATTACGGT TATTTTATTT AGTGCATTAA TAAGTTTTGT ATTAACAAAT	120
	GTTTACTATC ATTATAATTT AAAAGCATCT AATGACGCGA AAATCATGAA GACGCTTAAA	180
	GAAGCAAGAC AATATGAACA ATCAGCTAAA CCAACGCACA TTCAACAATA TTTCCAnACA	240
10	TTTAGGGTCA AATGGAATTA CCAAATAATG ACCATGGATC CATAAAGGTC nTnAGACCTT	300
	TTT	303
15	(2) INFORMATION FOR SEQ ID NO: 2552:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2552:	
25	TTTACTTTAG CCTTTATTGC ATTTGTAATT TATAGAACTG CGAACAGGTG ACTACTGTnA	60
	ATTTATGTGA TTAAAGTTTC AATGATATTT GATTTATTAG ACCATTGCAA AAGCGCAAGG	120
	TTCTCATGTG CTGCTACAGT TTGCGGTCTT	150
30	(2) INFORMATION FOR SEQ ID NO: 2553:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2553:	
	GCACTCGTCA ATAAAGATGA AGCAGCATTT AATCAATATA CGGCAGAATA CAAAAATT	58
	(2) INFORMATION FOR SEQ ID NO: 2554:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2554:	

	AAAATCGTTG AATAATCAAT CATAGCAGTA AGCTATGTnA TATATTTTTA AAAATTGA	118
	(2) INFORMATION FOR SEQ ID NO: 2555:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2555:	
15	ACAACTTCAA AGAAATCATG TCACAAAAAA AGTATTTGAT TTTAATCATA nGTGGCGACA	60
	ATCCGCATAC CAAAGCACAA CCTTTAGTCA ACCAATTCAG AT	102
	(2) INFORMATION FOR SEQ ID NO: 2556:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 242 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2556:	
	AGATGCATTA GCAGCATTAG ACGTTAAACC AGTTGGTATT GCTGATGATG GTAAGAAAAA	60
30	ACGTATCATT AAACCAGTTA GAGAAAAAT TGGGGATTAT ACTTCTGTAG GTACACGTAA	120
	ACAGCCAAAC TTAGAAGAAA TTAGTAAATT AAAACCGGAT TTAATTATCG CTGATAGCAG	180
	TAGACATANA GGTATTAATA AAGAATTAAN CAAAATTGCA CCAACATTAT CATTAAAGAG	240
35	TT	242
	(2) INFORMATION FOR SEQ ID NO: 2557:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2557:	
	TGCACTCATA ATCATCGGAA TATGTATAGA ATCAACTATC ACTTTGCCGT GTTTATCTGT	60
50	GTTAAATGTG TAACCATAAC AGTGTGTCCC ATTTGGATTA TGAATCTCAG AATAATCATC	120
	AAAAATATCC TGAATTTnCA AATTAATTTC ATTATAGCGG nAGCAATGTC TATAAAATTT	180

	TATTTCAA	248
	(2) INFORMATION FOR SEQ ID NO: 2558:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2558:	
	TTTGGGTCGT GATTGAAAAA ATCTAAGGCT AATAAACCAT GTTGTTCTGC GCTTAATAAT	60
15	TGTTTGAGTA TACGGTTAAT AATTAACTCT GTATCATGAG GGTTGACGCG AAAGTCAGAG	120
	CGCATATAAG TCATATAATT CTCGAAGATT TCTCTATCAG TATTGCTTAA TCTTAATGAT	180
20	TTAACATTAT TTTCTTTTGT TAATTGCGCA GTACTTTTCA TTGTTACTTA AGCGCTCCTT	240
	TAAAAATGTT TAATTCCAAA TTAAAATGGA AATGATTTTA TAGTATTAAT AAGGTCAATC	300
	ATATCATATT AAACGCATAA ATATAACGAT TAATATTGGA GAGGAAAATG AGGACACTTA	360
25	ATAAAGATGA ACATAATTAT ATCAAGCAAA TAGCTAATAT	400
	(2) INFORMATION FOR SEQ ID NO: 2559:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2559:	
	AAGGGAAATT TAAAAGTATC ATTTGATTAT ATAGATTGGA TTAAATTAGG TTTTGGCCCA	60
40	TCAGGAAAGG AAAACTACTA TATGTACAAA AAATTTGGTA TTTTACCAGA TATGGAATAT	120
40	GAAATGGAAG AAATTCGAGC AGTAGAGAAG TATGTTAAAG AGCAAGAGTA GCAGACATGT	180
	TATAAAAGAC TGTGCAAAAT CACCCTCGTT TTACATTTGA TTCAAAGAAG AAGGTAAAAG	240
45	ATAAGANTAT TTGCAACTTA AAAAGTCAAT NAGCTTATCG GTATCCATAC ATCATGGATA	300
	AATGAGTHCA ACTAATTAAC AAATCACGAT ATA	333
	(2) INFORMATION FOR SEQ ID NO: 2560:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2560:	
	GTAAGACATT CACATTTATC ATTTCACCAC AATGGGTTTA CCAACCATGG TTTAACGAAT	. 60
5	CCAAAACTTT GATGCTCGTA TGTCTCA	87
	(2) INFORMATION FOR SEQ ID NO: 2561:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2561:	
	TTGCATTTTG ACGTAAATGA TTAAACAAAT CGTGATTATC TCTTAATTTT CTAACCGCCT	60
20	TTTCAATTTC TAACGGCGTA ACTTCCTTTA GAACAATGCC AAATTTATAT TTnTCAT	117
	(2) INFORMATION FOR SEQ ID NO: 2562:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2562:	
	AAGTCAAACA AAATAAGCAA ACAGACTGGT CAGAAGATAA GTTGAATAAT ATAGCTTTGA	60
35	(2) INFORMATION FOR SEQ ID NO: 2563:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2563:	
45	AAGTGTTATT ATTGTGATCA TAAAGTGAAG TATTACCTTT TTTATTCGTA ACCCGATTCC	60
	ATGCGCCTTC AACATAAACT	80
	(2) INFORMATION FOR SEQ ID NO: 2564:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2564:	
	AGACATGGGC TTATCAGATA AAGTAAAAGC ATTACCTAAA GGGGGAGGCG GTAAGTCATT	60
	ACCG	64
10	(2) INFORMATION FOR SEQ ID NO: 2565:	54
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2565:	
	GTTTGTTTAT AGTACCCTGG ATTTTCTTTA TTTCCATCAT GTGAAACTGT GTCAGTGAAC	60
	GCTGAT	66
25	(2) INFORMATION FOR SEQ ID NO: 2566:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2566:	
	TTAATTATTT GTGACGTATT ACACGCATTA CTTTAGAAAG TGATTCCCAA AGCGAATTAT	60
	CTTTACGATA AACTA	75
40	(2) INFORMATION FOR SEQ ID NO: 2567:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2567: ATATTATTAT ATTGCTTTTT TTCAGTTTGC CGTTGTTACT TTCATAACTT	50
	(2) INFORMATION FOR SEQ ID NO: 2568:	
55		

5	(A) LENGTH: 223 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2568:	
10	TTTTAGGATT TGTAGTAGGT GAGCGACGTA TTMMGGATGC AATCCAGAGA ACAATAAATA	60
•	TTGAGAGAGA GCAATTCATA ACGCAGTTGA AATACATGTG TTACGAATTG CTTTTATGTT	120
	AGTTTTTATC ACACAAGTTT TTTGATGCAA CCCCGTGATA GCGAAACTCA TATGTAGATA	180
15	ATACAGCTTT TTCAGCATCA TCTACATGAA TTCCAAAACA TCA	223
	(2) INFORMATION FOR SEQ ID NO: 2569:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2569:	
	AATAATGCCA TACAGTGAAG ACCATGCGCA TCAATCGATG TCTAGTGTGT ACTACGTC	58
30	(2) INFORMATION FOR SEQ ID NO: 2570:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2570:	
40	CGTTTCATTA GTTTTAAATG ATCCCCAATA CTTTTTGTAC CTTCACCAAC TATCGTTCCA	60
	ACACTATCTA CAGCTTTTTC TGTGGTATTT TTAAACAGCG TCTATTTAAT GTCTTATCCA	120
	ATTAGTTTTA TCTCTTAATC CAAATTTATT AGTATGAAAA GTCCAATTTT TAAGAATTGT	180
45	CTAAACAGAT TCCGCAACAA AACCAGCTAN AAACCGTCCA TACTATTGGA ATNAAAACGC	240
	CAATGTTATA	250
	(2) INFORMATION FOR SEQ ID NO: 2571:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 174 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2571:	
	AGCTCCTTTC TTTCTAGTTA ATATCATTNA ATCTTGTTTT TCAGTGTCAA AATTACCTGT	60
5	AAAAACAACA TTTTTATCTT TTAAAATAGG GATTACACTT TCCACTTCTA TTTTATTAAT	120
	CTCAGATATT TTCATATGAA TTTTTTGAAA TCCTGAATCG AAAAGTTTAG TTGG	174
	(2) INFORMATION FOR SEQ ID NO: 2572:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 390 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2572:	
20	CATGCGGTAG GTATTTCTAA TCTATGGACA AATGGCGGAT TTATGCCAAA TGGTATTGTT	60
	GGTTTCTTCT TTGCATTATC AATTGTAATT GGTTCATACC AAGGTGTGGA ACTGATAGGT	120
	ATTACGGCAG GTGAAACTAA AGATCCTCAG AAAAATATCG TTAAAGCAGT GAATGGTGTT	180
25	ATCTGGAGAA TTTTAATTTT CTATTTAGGC GCTATTTTTG TTATTGTTTC AGTGTATCCT	240
	TGGAATCAAT TAGGAGACAT TGGAAGTCCG TTTGTTGCAA CATTTGCTAA AATCGGTATT	300
	ACATTTGCAG CTGGATTAAT TAACTTTGTT GTANTAACTG CAGCAATGTC AGGATGNAAC	360
30	TCAGGGATT TGCAGTGCGA GTCGTAATGA	390
	(2) INFORMATION FOR SEQ ID NO: 2573:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2573:	
	TAGAGTACAG AACATACGCA AGGAACTCGG AGTTTACTCA CGGGACTTnT	50
	(2) INFORMATION FOR SEQ ID NO: 2574:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2574:	
	TACAATTACA AACGCATCGT GAGATGTTTT AAGCATCAAT GAGAATCTAA CTCTCCAAG	5
5	(2) INFORMATION FOR SEQ ID NO: 2575:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2575:	
	GACACAACGT ATGACGCATG AAGAGTTGCG TGTTGACAAT CAAGATGATC ATAGCCAAGT	60
	TAGTCTAAAT GGTTACACAA AGGGGTCTGA GAAAGATCAA GAAGCATTCA CTAATAATAA	120
20	GGATGAGGAA GCAGTTGCTG CTAAAAATCC TGAATCAGAA GAATATAAAG TGAATGAAAA	180
	AATAAAAAA GAACATAAAA ACTTTATTTT TGGTGAAGGT GTTTCANGCG GTAAAATATT	240
25	AGCGGCATTA TTATTCGGTA TGTTTATTGC GATTTTAAAC CAAACATTAT TAAATGTTGn	300
25	TTTACCAAAA ATTAATACGG AATTTAATAT TTCTGCGTCA ANAGGGCAAG GTTGATGACG	360
	GGATTCATGT TAGTAAACGG TATTTTAATA CCAATTACGG	400
30	(2) INFORMATION FOR SEQ ID NO: 2576:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2576:	
40	TTTAAATCGT ACCTTAAATT TGAAAGTAAT AAGACACACC AATTACCTTC TAACTCTATC	60
	GATAGTITCA AACAAGAAAT CGnTAGTACA TTCAGTTATT TAGAACGCGT TGATTACCAG	120
45	CT	122
	(2) INFORMATION FOR SEQ ID NO: 2577:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CACATIGAGO IGCAGICATA CETIGITIAA AIGICCAAGE ACGTACTTET T	5.
	(2) INFORMATION FOR SEQ ID NO: 2578:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(0) 101020011 11110012	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2578:	
15	AATTATGACT ACAGGTCTGA CTCCCCCTTG TTCAGATCCC TGTACTGGTG ATAAATCTGC	60
	TAAATAAACA TCTCCTCGTC TAATCATTCA TTCGTTGAAT TAGAAGATAA ATATGTTTCG	120
	TTGCAATCGC ATGCTTCACA CTCTATCGGA AAAGCTTCGT TCGCTAGGGA GAGATTTAAA	180
20	TCAGCCATTT GTGAATATCC TTCTTTTAAA GATTGTTCTA AGCTATGACT TCTATTTTGA	240
	CTAAAAGATA ACATATGAGA ACCTCCAATT GATTCCAAAA GTTATTAAAT GACCTTTAAT	300
	TACTCTAATG ATAACAAATT TTATATGCAC TGACCATATT ATTTTAACAA TTCATTTGTT	360
25	ACAAAACGGT GGATCACCCA TCATGGATAG AGTCGCGGGn	400
	(2) INFORMATION FOR SEQ ID NO: 2579:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2579:	
	ATAAAAACCT AATTGACTCA TAATCTTCTA ACGGTATATC ATCCACAATC ACAGTATGAT	60
40	TAGGATTATC GTTAGATACA TCTnTCACTG CCTTATCTAA CCCCTCATCA CC	112
	(2) INFORMATION FOR SEQ ID NO: 2580:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2580:	
	CATGANITHIA ACGGATICAT TCCATATATC AATTGCGTTT GTTATTTTAA TAATGCTATT	60

	ACTACAACTT CGATTTAAGC TATATTTATA AAAAAATGCG CCTACTCATA ACATTCTTTG	180
_	GCTATTTAAC TTTAATAAGC TAGGGCCAAG TTTGTCATAA GATAAGCGCA C	231
5	(2) INFORMATION FOR SEQ ID NO: 2581:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2581:	
	ACTTCGTAAA ATTTATCTTG AGTGGTTGTT TCTATATTAA GATTCATTTC ATTACACTCC	60
	(2) INFORMATION FOR SEQ ID NO: 2582:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2582:	
<i>30</i>	GTCAAATGCT GAGTTCTAAT AATGATGTTG GCCACCATGC ATACAAAAAT GCTAAAAGAG	60
	AATTACGCAA GATTTTAGAT AGCTATCTCG AAAATGGTAA ATTAAAATAT TACGATATTA	120
	TCGTTACAAG CAATTTAGCT ACTAAACATC CGTTTTTCGA GTATGCACGT TCATTTGATT	180
35	TTATCATTGT TTCAGATATC GGTTTAATAA ACGTTGATGT AAAAAGCTGG GGTGAAAAA	240
	CATTTTATCA CTTTGATGTA CCTGATGAGC ATGATACAGA NANA	284
	(2) INFORMATION FOR SEQ ID NO: 2583:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2583:	
50	GAGTCAGTCG AAGTTTGTCG TTCGACCCGT AGAAGTGTAA AACGGCATTG TGAATG	56
	(2) INFORMATION FOR SEQ ID NO: 2584:	
	(i) SEQUENCE CHARACTERISTICS:	
55	(A) LENGTH: 67 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2584:	
	TCGACTAATG TAATGTAGGC ATTGGACGTC AAATGTAATG TGGGGCAATC CGACGAGATG	60
10	ATGGTGC	67
10	(2) INFORMATION FOR SEQ ID NO: 2585:	•
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2585:	
	CGTAACCGCC CCTTGTCCGG GCCCTCCAAG CCTTTTAAGG GGACCCCCCG GA	52
25	(2) INFORMATION FOR SEQ ID NO: 2586: (i) SEQUENCE CHARACTERISTICS:	
30	(A) LENGTH: 238 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2586:	
35	ATTAGCAACA ATGTCAGATA ATCGATACCA ACTAATTAGG CGAGAAGCGG TTTCTCATGG	60
	TCTTAGTGGC CTAGAAATTG ATGTATTTGA TTTGCATTCA AATAAGTCTA GACATATTAG	120
	CTCGTTATCA GGTGGAGAAA CTTTCCAATC GTCGCTTGCA nTAGCTTTAG GGTTAAGCGA	180
40	AATTGTACAG CAGCAATCAG GAGGTATTTC ACTANAATCA ATATTTATTG ATGAAGGA	238
	(2) INFORMATION FOR SEQ ID NO: 2587:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2587:	
	ACTGGAAAAA ACCGCnAACA CGACATTGTC AAAACGACGG CCAGTGCCAA	50

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2588:	
	GNGCAATTAT ACCACTATAT TTATTTCTTA TACTCCATTT GATTTATAGT TGTATTAATA	60
	CATTGACTCA AAAACTAATT AATCAAATAT GTTTTTTAGA TT	102
15	(2) INFORMATION FOR SEQ ID NO: 2589:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2589:	
25	GCATAATATC GGATATGCGn GTGTGTCAGT CnCATAGTCG nTGGATTGCG	50
	(2) INFORMATION FOR SEQ ID NO: 2590:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2590:	
	TTANAAATTG CCTnTCCAAT TnTAAGAATC CTTTTTCCAA GGTAAAAAAA	50
40	(2) INFORMATION FOR SEQ ID NO: 2591:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2591:	
	CTTCATCCCT TACTTTTAAT TGTCACGTCA AATAATATTT GTCTTTAACT AGTAATAACT	60
	CCAAATATAT TTAGTTTGTG GTGCTAGCTA TAAACACAAA TGAnTCATAA CACTATATTT	120
55		

	TGATTTTMAA TTATTTATAT	200
	(2) INFORMATION FOR SEQ ID NO: 2592:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2592:	
15	TGCATTAATC ATCTTGGATA CTCTTTCTAC CAAAGTAATG ATTGCACTAC CATGACGACG	60
	ACCAGCAATA GTAT	74
	(2) INFORMATION FOR SEQ ID NO: 2593:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 244 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(a) Islandi	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2593:	
	CACCTGCTCA CCTCTATTTT CAAACAATTA TGATTGAATT GAATCATTCT AATTTTTGTA	60
30	AAGTTACTTG TTTAATTTAT TATATTTATT AACTCTATGA TAACAAAAAT ACTGTTTGTG	120
	TATAACAATA AATTGAGATA CTCAATAATT TGATAATGTG AAATTGATAC TTTTCAAAAT	180
35	AGTTGAATAT GACAATTAAT GATTAGTTTT GCNATGGTGC TATAANCAAT ATTTAGCAGT	240
	TATC	244
	(2) INFORMATION FOR SEQ ID NO: 2594:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 201 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2594:	
50	ATATGGTATG GAACTAACGG AAGAAGGCTT AGCATACGTT AAATATGCTA AAGTGATTTT	60
	AGATAGTAAT AGCGAATACG AGAGAGADAT AAAAGGACTT TACAATAAGA AGGTAAATAT	120
	AAGTATTAAC ATGCAAGANA GTCAGTATTT GTATCGCTAC TATAATAAGA TTAGTGAATG	180
55		

	(2) INFORMATION FOR SEQ ID NO: 2595:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2595:	
	AAAAAGTATT AAAAATTGCA ATTCTTAAAC TGTTATTCAT ATTAATATTT CTAGCAAATA	60
15	ACATTGTAAA ATAAAGAAAA ATAATTANAG TATTGCACTT TATTGAAATT TATATTACGA	120
	TAGTAATGCA GAAATTTATA TATGCAAAAT ATTATA	156
	(2) INFORMATION FOR SEQ ID NO: 2596:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2596:	
30	TGATCCGCAA ATCGCTGAAC ACGTTCTTCT ATTGGAATCC CTCCATTCAC TTTTAGCTAG	60
	AC	62
	(2) INFORMATION FOR SEQ ID NO: 2597:	
35	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 140 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2597:	
	TTACCTTTAG nTTTTAAAAC CTGACCCTCC AACCAGCCTA ATTGGTTAAA TGGGGATCCA	60
45	TTTATATAAT CCCAGGCCTA ACCTTCCAAG GACCAACCTA AGGGATTAAT CCCCCCAATG	120
	GCCAAAGTGG GATGGGTAAT	140
50	(2) INFORMATION FOR SEQ ID NO: 2598:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 112 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55	(C) SIMMEDNESS. COUNTE	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2598:	
	ATTAATTGGG GAGTTAAATT AAAAAAAAGG GGTTCCTTCC AACCGGANCC ATTCCCATTT	60
5	TGGATTAAAA ATTCCCGCCT TTGAAAAAAT TGTTTGCCGA ACCGCCCTTA AG	112
	(2) INFORMATION FOR SEQ ID NO: 2599:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2599:	
	ATACCGCCCC CAGTTCAATA AGAAGCCCTG GATCAGACCT GACCCTGGTA TGGGGGGAAT	60
20	ccc	63
	(2) INFORMATION FOR SEQ ID NO: 2600:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2600:	
	ATACTATGGA ATGCCTTAAT GGTGGATAAT TTCACCAAAT TAATTTTAAA AAC	53
35	(2) INFORMATION FOR SEQ ID NO: 2601:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 73 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2601:	
10	AACTAAAGGT TCTAAAGATA CAGTAAAAAT TGAAAATAAC TATAAAATGC GTGGCGAGAA	60
	AAAAGATGGT AGT	73
50	(2) INFORMATION FOR SEQ ID NO: 2602:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear		
5			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2602:		
	CGGTTGCCAG CCAAAACTTG GCAnCCAAGG CAATTATAGC AAGGCACCCA CCTAAATTTG	60	
10	CGGACCACCC GGAATGCGGC CACCAAAGTT GGTGGGAGGC CATTTTAA	108	
	(2) INFORMATION FOR SEQ ID NO: 2603:		
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
20			
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2603:		
	AAGCTTATAA CTATTTGTGT TTGTGATCGA GATAGGTTTG CCTGTAAAAA TGGCCATCA	59	
25	(2) INFORMATION FOR SEQ ID NO: 2604:		
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(wi) SEQUENCE DESCRIPTION SEC ID NO. 2504		
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2604:		
	ACGTCCAAAG GGCCGTTCGC CCCAGAnGTG CTGGCAAGGT TCCACAACGn	50	
	(2) INFORMATION FOR SEQ ID NO: 2605:		
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
			45
(xi) S	EQUENCE DESCRIPTION: SEQ ID NO: 2605:		
FICCAATGTC	ACATTAATTG ATTGGTATAA GCGATCACAA GGnCATAGTG AATATTTTGC 60		
ACCAGACGGT	GTACATTTAG AGTACAAAGG AGTCCTAGCT TTAAAAG 107		50
(2) INFORMA	TION FOR SEQ ID NO: 2606:		
	QUENCE CHARACTERISTICS: A) LENGTH: 54 base pairs		55

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2606:	
	GTTTAAAGCA ATTTGGAAGG ACATTGGTTA AAGGATGGGA GTGGCAAAAT CTGG	54
10	(2) INFORMATION FOR SEQ ID NO: 2607;	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 366 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2607:	
20	GTTTTAGCTG AAGTTAATGA TGAAGATATC GGAGCTATGG TAATTAAACT AGTTAAACTT	60
	ATTTCATGC TTGATTATGT TTTATTTCAT TCAATTCAAA AAAGCTATAC AACACATATG	120
25	AATGAGCTTA AAAATTGTTT CGATTACATA GCTGAATTAG ATAATCATTA TGCATTAGCA	180
	ATGTATCGTA GAACGCTAGA ATGTTATACT GAACCACAAA TTGATGATTC AAATGATGGC	240
	ATAGTATTCT CTGAGTTAAC ACATCCACTC ATAGCAGATG GCAGTAGCCA ATGATTTCnC	300
30	ACTATCACAn AATATACTGT TAACTGGGGT CGAATGCTTC GGGnTAAATC AACATTTTAT	360
	GGAAAT	366
	(2) INFORMATION FOR SEQ ID NO: 2608:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 142 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2608:	
45	TTCTTAGACG TCAGGTGGCA CTTTTCGGGG AAATGTGCGC GGAACCCCTA TTTGTTTATT	60
	TTTCTAAATA CATTCAAATA TGTATCCGCT CATGAGACAA TAACCCTGTA TAAATGCTTC	120
	AATAATATTn GAAAAAGGAA GA	142
50	(2) INFORMATION FOR SEQ ID NO: 2609:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2609:	
5	GGGTCGTCAA TTGAnGGCAG GTAGAGCATT AAGTCAGAAT TGTAGTAAAT	. 50
J	(2) INFORMATION FOR SEQ ID NO: 2610:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2610:	
	ATTGGGTGAT GAATTTTGAC GGTATTGTCA AGTCCAGTGG CTAACTTCCG G	51
	(2) INFORMATION FOR SEQ ID NO: 2611:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 93 base pairs(B) TYPE: nucleic acid	
25	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2611:	
30	ACAAACTTCG GACTGCCAAT TACATTTACC TTGGGGGGTC AGAAACAATG GGTGCATAAA	60
	GGCCCGTGTT TCGAAACGGG AAAAAGCCCCA GCA	93
	(2) INFORMATION FOR SEQ ID NO: 2612:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2612:	
45	ATGATGTTTT TCGGCTAATT TTTATACTGA ATTTAGTTTA ATTAACTTAT GATATTTT	58
	(2) INFORMATION FOR SEQ ID NO: 2613:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2613:	
	TTCTCACCAT TAACTATGCA TACTCACTTT ACACATAAAT TTGCTTAACA TGCAGAACGG	6
5	AAATAAATCA TTACCACATA TAGATCCCAT CATATATTTA nA	102
	(2) INFORMATION FOR SEQ ID NO: 2614:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2614:	
	TGAACTACAA GACGCTTATA TCATTGACGC ACATTTCTCG CAGTGAAAGA AACACTTGCG	60
20	TA	62
	(2) INFORMATION FOR SEQ ID NO: 2615:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2615:	
	TGGAGCATTT CACATACATT GGCAACCTCA TGGAGCTTAT CATTCTACCT TGGGGNACAG	60
35	ATATAACAAC ACTAACGCAA CATGGATGGT GTCGTTGATA ACTTTCAATC TATAGAATTA	120
	(2) INFORMATION FOR SEQ ID NO: 2616:	
40	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2616:	
	CTGTAGTAAA TTGCCAGAAT CCGTATCAAT ACCAGTCTGT GACTGCGTTG GCC	53
50	(2) INFORMATION FOR SEQ ID NO: 2617:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2617:	
	ACATATGATA TGAGTATATT AACGTTTAAA TTATGGATAC TCTAAAGACA GGCGATTTTG	6
5 .	ANAAATCAGC AAAAAGTTAT ATGATGTAAG TGGGACAGAC ATACTAGATG TAACACATTA	12
	ACCAAGTG	12
	(2) INFORMATION FOR SEQ ID NO: 2618:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2618:	
20	CCTAACCGTG TGTGTATGTA TACCTACAAA AAAATTTACA TTGTGACACT GCGTACGTG	. 59
	(2) INFORMATION FOR SEQ ID NO: 2619:	
25	.(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2619:	
	GCCCATGGTC AATCAGACAC ACGGATTGAA CGTTAACAAT TTATGACTTT AACA	54
35	(2) INFORMATION FOR SEQ ID NO: 2620:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2620:	
45	ATCATTGTCA CATTGAGTAG CCGTAAAATG GTCAGACGAT CAATGCGAAC TGA	53
	(2) INFORMATION FOR SEQ ID NO: 2621:	33
	(i) SEQUENCE CHARACTERISTICS:	
50	(A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2621:	
	CTAAGTGTCG CCCGAATAAC CGTCAATCCA CGGAGCACAT AGGATCTCCC ATG	53
5	(2) INFORMATION FOR SEQ ID NO: 2622:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2622:	
	TGGGACCGAT AATCATTCGC ATGAACACCT TCCACCGTCT CTTACTCACT ACCTACGGC	59
	(2) INFORMATION FOR SEQ ID NO: 2623:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2623:	
	ATTAAATTGT TATTTCGTCA TTAGGTGACA ACTTGTATGT AGATATTTTA ACATATTTTA	60
30	TGCT	64
	(2) INFORMATION FOR SEQ ID NO: 2624:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2624:	
	CCGTCCCAGA ATATCATATG ACAAATGTTA AGAGACTTGA ATGATCATAC ACGTG	55
45	(2) INFORMATION FOR SEQ ID NO: 2625:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 66 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2625:	
	GTGGTCACCA GGTACGGGGG ATACAGGGGG TTAATCCCAC CTTGGATAAG TGGAAAACGG	60
5	ATTTCC	66
	(2) INFORMATION FOR SEQ ID NO: 2626:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2626:	
	CCACCAATGG GTGGGGGATG GAATAACCCT TAATGCGGTG GTACCCGGGT AATGGTAGCC	60
20	cc	62
	(2) INFORMATION FOR SEQ ID NO: 2627:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2627:	
	CATGTTTTTT CATTCCTTGA TGACGACACT AGAGGTTCCC GTGTTCATTA TTAA	54
35	(2) INFORMATION FOR SEQ ID NO: 2628: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2628:	
45	TTGGCCAATG GGCGATACAC CCTCTCAATT CGATACATAA CTCAAGGCTC AGTCAT	56
	(2) INFORMATION FOR SEQ ID NO: 2629:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2629:	
	TGTCGCTAGG TAACCGTGCA TCGTTCACAG GTACnTATGA TTTCACCnGA	50
5	(2) INFORMATION FOR SEQ ID NO: 2630:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2630:	
	GAAGGNCCCA AACCAGGCGT TAAAGGCCGA TTGGGTTTAA ACCAAAGGTT	50
	(2) INFORMATION FOR SEQ ID NO: 2631:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2631:	
	CGCGAGTGTA TCCGTCGATA TGTCGAGAGG AAAGATTGAA GTGTGGAAGA GTGTTGAGTA	60
30	ACCCT	65
	(2) INFORMATION FOR SEQ ID NO: 2632:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2632:	
	TGAAAGAACT TTAGCTAGAC GTTCGTAAAG GTCTTTTGAC ATAAAGCTAG AGA	53
45	(2) INFORMATION FOR SEQ ID NO: 2633:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AAAAGCCAAA AGGAATTAAT TAACCCCGGG GTTTAATTTC TAATGGGAAT TTG	53
_	(2) INFORMATION FOR SEQ ID NO: 2634:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 68 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2634:	
15	GGTGTTCACA TTCTGAAGGT TTAGAGAGTT AAGATTATAT ATATATAGT TTTGGGGTGA	60
	TAGATATG	68
	(2) INFORMATION FOR SEQ ID NO: 2635:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2635:	
	CCAATTTCAC TTGGTGCTGC CATTTCGGTC TCTCGTGTAC TTGTGATTGA GGTGCCATTG	60
30	TTCCCGTAGA TGGTTCACAT	80
	(2) INFORMATION FOR SEQ ID NO: 2636:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2636:	
	CTTACACCCA ACTTATTGAC TTATAATCTA TTAAAGTGCC ATTTTACAAT CTGAATCCCT	60
45	TAATATAGCA ATAATTACAA CTTCCGACAA ATGACTTGTT TTATGTGCGT GATTCATCAA	120
	TGAACATCGT AATGCGACnT AATA	144
	(2) INFORMATION FOR SEQ ID NO: 2637:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(with appropriately and an are	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2637:	
5	TAATTCGGCA ACTAATATCA AGATCATGAT CAAATACTAC TGCCATTTTC TTATACCTCT	60
	TAATGTGAAA TCACTGnCAA CACATAACAT CTTAAAACTT TGAC	104
	(2) INFORMATION FOR SEQ ID NO: 2638:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 151 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2638:	
20 -	CATTCATCCG TTTTTTTGGT TCATGTACAT ACCATTGTTT TGTACACAGC GAAGTCAGTT	60
	AACCTTATAT CCTTGTATAA CAGTTGAAAT CGGCAATATT AAACAGTACT TTCCCAATTG	120
	CTTTCTTCCT CAATTGTGCG ACGGACTGTA n	151
25	(2) INFORMATION FOR SEQ ID NO: 2639:	
<i>30</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2639:	
	AAGATCAACT GAAATTCATG TGTTGCCCTT TATTAAGATC ACATGGAAAT A	51
	(2) INFORMATION FOR SEQ ID NO: 2640: (i) SEQUENCE CHARACTERISTICS:	
40	(A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2640:	
	TTAGCTAGTT GGTAGGACGG CTACCAGGCA CGTCATAGCG CCTGGAGGGG TC	52
50	(2) INFORMATION FOR SEQ ID NO: 2641:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2641:	
	CAGGCTTAAA CCTGAGTTAG TGCCATTCAT AATTGCAATC CCAAGCGACG GAA	53
10	(2) INFORMATION FOR SEQ ID NO: 2642:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2642:	
20	ATGTTTGTCA TCTGGAGChA TAGAACAGGG TTCATCATGA GTCATCAACT TACCTTCGCC	60
	GACAGTGAAT TCAGCAGTAA GCGCCGTCAG ACCAGAAAAG AGATTTTCTT GTCCCGCATG	120
	GAGCAGATTC TGCCATGGCA AAACATGGTG GAAGTCATCG AGCCGTTTTA CCCCAAGGCT	180
25	GGTAATGGCC GGCGACCTTA TCCGCTGGAA ACCATGnCTA CGCATTCACT GCATGCAGCA	240
	TTGGTACAAC CTGAGCGATG GCGCGATGGA AGATGCTCTG TACGAAATCG CCTCCATGCG	300
	TCTGTTTGCC CGGTTATCCC TGGATAAGCG CCTTGCCGGn CCGCA	345
30	(2) INFORMATION FOR SEQ ID NO: 2643:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40 <u>.</u>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2643:	
	CTTATACGGA TGTATAGGTC GGTCCAAACA TTTGATTTTA GTGGAGAGCA GCCTTTCACA	60
	AATTATGTTC AATGT	7 5
45	(2) INFORMATION FOR SEQ ID NO: 2644:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TACCGGTTAA TTAACCAGGG CCCCGGTAAA AAAATCCCCG GTATTCCCCA TTCCAAC	57
_	(2) INFORMATION FOR SEQ ID NO: 2645:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(b) Totoboot. Timeat	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2645:	
15	AAAGCAATTC GCCCGATAAG AGTAGAGACG AATTGCTTTT AAGGTTAAAA CAAAGTGAGT	60
	TCAATT	66
	(2) INFORMATION FOR SEQ ID NO: 2646:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2646:	
	CAGTATAACT TGTGACCTAT TTAGAGGGGC ACGGTTGGTA CAATGAGTCT GAAACCGTAT	60
30	CAA	63
	(2) INFORMATION FOR SEQ ID NO: 2647:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2647:	
	TAGAACATGG ACCGGTATTT TACATCCTGT ACGCCTAATC TGTTGTAAGT ATCTTTAGTG	60
45	AACCGTTGCT CTGGAATAAC CGCGATTCTG GGCAAACAGT GTGTAAACCG ACTHTATGGG	120
	GATGTGTGAG TAATCATTGT GNACTGTTGA TTCTGTTCTG GAATCCCATT TCACAACACG	180
	ATCTTGGAAG TGCTGTCATT TTAGATGC	208
50	(2) INFORMATION FOR SEQ ID NO: 2548:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 150 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2648:	
	TTTTAACCTA AAGAATACTA ACACTAAAAG AGAATGATTC TGTACCGCTT TCCTTTTTCA	60
10	CTCAATAACT TTATATTTAG TTATCCTTAT AATTGTAATT TATGTTAGTT GGTAAATnTT	120
	TACATATATG TATTTGATAT GCTTGTAAAT	150
	(2) INFORMATION FOR SEQ ID NO: 2649:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2649:	
	AGTTTAACTG ACATCGAGTG GTACACAATA GCAATGGTTG TGTGTAAAGT CCTGGTGACA	60
25	ACATATGAGA GTAACATTTG TAGTGATTAT CTTGTACTGA GAGAATTGAC ATCTATGNAG	120
	TTTATCACGT GCAAATAT	138
30	(2) INFORMATION FOR SEQ ID NO: 2650:	
••	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 52 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2650:	
40	TCACAATTGC AAACTTCTGG CACGCACTCA TCTGCGATTT CACAAGCTAC AT	52
	(2) INFORMATION FOR SEQ ID NO: 2651:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2651:	
	GAGTCAAATT AAAATGCCTA TTGGCCATTG TGATGTATAA TCACTTAGTT CACATATACT	60

	(2) INFORMATION FOR SEQ ID NO: 2652:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2652:	
	GGGCGGTAAT TGTCACCATC ACAAATTGCT ACGTTGAAAC ATCGAGGATT CAAGCTGGAC	60
15	AGCAGAG	67
	(2) INFORMATION FOR SEQ ID NO: 2653:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2653:	
	ACACATCTTA TATGTCTTAC TGATTTAAGG AAAGAATCAG TGGATCAAAC TG	52
30	(2) INFORMATION FOR SEQ ID NO: 2654:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 261 base pairs	
35	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2654:	
	CAAGCTGTAA ACCAAGAATT CCAGCATTAA ATATCTCTCn TGGTATCGGT TGAGATAAAT	60
	ATTCCGTGTG CTCATTAAAT GTAGTAATCT TTATTGTAGT TCCTCAACCT ATGACACGAA	120
45	TATTGCACAA TATTAGTATA GACAAATATT TCCTTTATAA TCTCATTCAA TTTTCTCCTT	180
	TAATTATGTA TCATACATTG TATATTCTCA TATAGACGTT TTGnCATATT CATAGCTTCA	240
	ATATTAGTGC ATTTATGTAT T	261
50	(2) INFORMATION FOR SEQ ID NO: 2655:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 60 base pairs (B) TYPE: nucleic acid	
<i>55</i>	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2655:	
	AATCCTATTA GCACTTATAA TGATCATGAA AAGATGTCAT CGAGAATCAC CTAGTACACG	60
5	(2) INFORMATION FOR SEQ ID NO: 2656:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2656:	
	CGCCGAAAAC AATAAATTCT CGGAACATAG AATTTATCAC ATACCACGCT TGGATTATCA	60
	CAATGGACTG AGTCG	75
20	(2) INFORMATION FOR SEQ ID NO: 2657:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2657:	
	TATTAAATAT GCGGTTGCAT ATATCTACGG CATGATTTAA CCGTGAACCA TGAATCATTT	60
	TAATCGGGCA CGCGTAAAAT GCTCATTGAT CCGCANATAC CACTATATAT CTAATAGCAA	120
35	GCGTCCAGGA TTCTGTGTTT TATAAATTTA AACTAACTGA AACGTGTGTA TCAGTTCACT	180
	CCGnTCGATT ACCACACTTC AA	202
40	(2) INFORMATION FOR SEQ ID NO: 2658:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2658:	
50	CGTACATGTG CATCATGTAT CTACGTCAAT AAGATGATGG GGTCACATGA TTGGACCATT	60
	(2) INFORMATION FOR SEQ ID NO: 2659:	

(A) LENGTH: 207 base pairs (B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2659:	
10	CTAATCATGT CATGTCTACA ATTATTTGGA GTATTGCTGA CGAAATGCGT TGTACAACTT	60
	TTTCATTCTA GCACCTTGCG GGGGCCCACA AANGAATTGG TCCATTCTCA nCATCAGTGG	120
	GGGGCGCGAA TAATTTCGAA ATTATTCTGC CACTCCCACT TCATCGATTA AGTTGTAACT	180
15	CTACATTACA TTTGTCTTAA ACCATTG	207
	(2) INFORMATION FOR SEQ ID NO: 2660:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
•	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2660:	
	TTAATTATGT ATAATACTTA ACAAGATCAC CTGATAGATG TCTAAATATT ATCT	54
30	(2) INFORMATION FOR SEQ ID NO: 2661:	-
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2661:	
40	ATTAAAAAA AATGGGGTAA TTTCCGCCAA ATCCCGTTTC CCCCTTGCCA AGGCCAAATT	60
	TAACCACCCT TGCCAAATMA TTAAGCCAAA TTTTCCGATA TTTGTTTCCG TAATGTTTCT	120
45	TTAATTAATA	130
	(2) INFORMATION FOR SEQ ID NO: 2662:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2301

	ANADIANAC CADICIATIC AAAAAGGIGA AAAATGGTGA CGCAGCGTAA ATAANTGGTC	60
_	TCTGGTAGGG TAAATCGCGT TGTGGGTTTG TCACATCAGG AACT	104
5	(2) INFORMATION FOR SEQ ID NO: 2663:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2663:	
	AAAAAGAATA AAAGGACTCG AAAAACTCAA AACTTATTnT AGATAGTCAT CGTGACAAGA	60
	AACAAACATT TAACTAGACT AAGAAAAATG CTTCGATTAA AAGGCAGACT CATCA	115
20	(2) INFORMATION FOR SEQ ID NO: 2664:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 164 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	\cdot .	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2664:	
	GCATGCGCCA CGGTGTCTCA GCAGAGTGAC TGCCACCTTG TGTGCGCAGA GTCTGCGCCT	60
35	AGTACAGTCA GGGTGAAACA CNCTATACGC ATTAGGTACA GTACTTCCTG TCTCCGACTT	120
33	GAGTAGAACG TGACATATCT ATCAGCATTC ACTCGAAAAA GGGA	164
40	(2) INFORMATION FOR SEQ ID NO: 2665: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2665:	
	AATTACGCAA TnTCCCTGTC TTAnTGAAAG GAATTGACCT GTTAATTCGT	50
50	(2) INFORMATION FOR SEQ ID NO: 2666:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2666:	
	ACAATTCAAT AGAATTTACC CGTAACAGCG TTGCACTGCA CTCAAGACGG CTGACGTATA	60
5	GCAC	64
	(2) INFORMATION FOR SEQ ID NO: 2667:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2667:	
	GTAGAACCAG CGACGGCGCG GCGGCTGAGC AACATCTGAC TACCTATCGG CCGCGC	56
20	(2) INFORMATION FOR SEQ ID NO: 2668:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2668: GGATCGATTG ACTACATGAC GTGGnGACGC AATTATACGG ATAGTCCACT	50
	(2) INFORMATION FOR SEQ ID NO: 2669:	50
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(wi) eroughor procedentation, ero to be acco	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2669:	- 0
45	GCAAGATCGA ATTACAATCA CGACGATCAA CGCACGTAAT CATCTCTGAT CACAGTAA	58
50 ·	(2) INFORMATION FOR SEQ ID NO: 2670: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2670:		
ATACCAGCCA GACTTCGATC AACAGTGTTC AACTGCATTG CCCAGTAAGT TGGATAGCTC	60	
5 GCACATAGTG CTACAAGTTA ACATATACAn CGAGTTTGTA TCTCAAGCTT GAAGCTTGAC	120	
TACC	124	
(2) INFORMATION FOR SEQ ID NO: 2671:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		15
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2671:		
GCTTACTGC ATAAAAGCCC CTAACACCGG GGCACTACGC TCGTTCGCCG GCTT 54		20
2) INFORMATION FOR SEQ ID NO: 2672: (i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		25
		30
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2672:		
CAGCGATTT AACACTAATT CTTCTAGCTA TTCTCTGTAT TTGGACGACG A 51		
2) INFORMATION FOR SEQ ID NO: 2673:		35
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double		40
(D) TOPOLOGY: linear		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2673:		45
ATAAGTTGT ACCATATTTC GATGCAATTC AATGGACAAT GAGGTCACCT GGCTTGT 57		43
2) INFORMATION FOR SEQ ID NO: 2674:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		50
		55

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2674:	
5	TCCTTTGGCC AATTTTTCCA AGTTTTAACC CAAACGGCCC GGGTTGGGTC CCCAATTCCA	60
5	ATCCAAAATA ATTITA	76
	(2) INFORMATION FOR SEQ ID NO: 2675:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2675:	
	TCCGGGAACC TTACCCAGTG GCCCTACCCT ATGGGTTAAC CCAACCAGTG GGGCCA	56
20	(2) INFORMATION FOR SEQ ID NO: 2676:	·
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2676:	
	TGCGGGGTCT CGTGCCGCCG TCTGCGGTGG TTGTTTGT	60
	GCCAGCT	67
35	(2) INFORMATION FOR SEQ ID NO: 2677:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2677:	
	GGACAGAGGC CTTGACCCCC CCACAATCCT GATTCACCGT AAGTTGCTCT CCCCC	55
	(2) INFORMATION FOR SEQ ID NO: 2678:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2678:	
	AAATTGGGGC TICCATCCCC ATTCCAAATT ATTAAAACCG TTTAGGGGCC TTATTGGCAC	6
5	CATGG	6
	(2) INFORMATION FOR SEQ ID NO: 2679:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 176 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2679:	
	ATTTTGGGAT TAAACCCTTA ATTAAAATTG GCCGGGAAAA GGAAAAGGCC GGTTGGGAAA	60
20	AGGCCAAGGA AAAGACCTTG GGANACATTA AAAACCTTGG GCCAAGGCCT TCCAAAAACC	120
	GGTTGGTTTT TATTTTGGGA ACCAAATTGG GGGGCCGGGA TTGGGCCAAA ACCTTG	176
25	(2) INFORMATION FOR SEQ ID NO: 2680:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2680:	
35	GCCCCAAAGA ATTCAAATAA CCnTTCGGAC CCGGTAATGG CCACnTAATT	50
	(2) INFORMATION FOR SEQ ID NO: 2681:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2681:	
	TGTGCATTTA TTGCATAACC TATATATGTG TGACCGATAT TTAGTGCGCA CTTCAATGGT	60
50	G CG	63
	(2) INFORMATION FOR SEQ ID NO: 2682:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs	
EE		

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2682:	
	TTATCCAAGC TTCCGGATAG TTTCAAGAGA AACCAATGAA ATCCGTTATG GGACCAATGG	6
10	GT T	6:
	(2) INFORMATION FOR SEQ ID NO: 2683:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2683:	
	AACAGCATTC AAGTGAGTTA CTGGGGTTTA TGCACCATCA TTGGATATCT GCACAAGGAA	60
25	TTTCAACGTG	70
	(2) INFORMATION FOR SEQ ID NO: 2684:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2684:	
	CTTAAAATTC CCCAGTTTCC TTCCTTTTAA ACCCCATGGA ATTATCCCGG CCAAAAATGG	ċo
	ACCATTAT	60
40		68
	(2) INFORMATION FOR SEQ ID NO: 2685:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2685:	
	TTTTAACAAA ACACCTAGAT ATGTTCGCTG ATCAGAGATG CCTGGTGACC GGTGATCC	58
	(2) INFORMATION FOR SEQ ID NO: 2686:	
55		

5	(A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2686:	
10	ATCCATCCTT ATAGGCATTC ATCCTTTAAC ACCAACGATT TACATTATGG ATATAACGAC	60
	TTGAGGGGGA ACGTGGGGTC CATCCTA	87
	(2) INFORMATION FOR SEQ ID NO: 2687:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2687:	
25	ATGGCTGGGC GCTTTACGTG GCCACATTAG GATTATGGCA CTGAAGCGTA	50
	(2) INFORMATION FOR SEQ ID NO: 2688:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>3</i> 5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2688:	
	AACGGTCGTA GGCAAGGGAC TCCCCCCnGG nGCTANATGA ACTGGTCGTA	50
40	(2) INFORMATION FOR SEQ ID NO: 2689: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs	
45	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2689:	
50	GCTAGCATCC ATGGCTCCTA TGCCGAAGCT GAGTAGACTT AGGTGACGGG TGCGTGACAA	60
	(2) INFORMATION FOR SEQ ID NO: 2690:	
56	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 146 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2690:	
	ACTTAAAAAA GGAAGATTAG AAAATTCATA AAAAAATTTT GCTGGGGATT CTTGATCCCA	60
10	TGGGCCCATn TCTGGATTTA GGTTATTGGG TTGGCCAGCC AGGTTAGCGG GGCCCCCATT	120
	CTTCCAGGCT CGGTTTCTCC CAGGAC	146
	(2) INFORMATION FOR SEQ ID NO: 2691:	
15	 (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2691:	
	ATTGGTGTCT AGATCATTTA ATACTAAACA TACAACACGA CTAATTCCAT TCA	53
25	(2) INFORMATION FOR SEQ ID NO: 2692:	33
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2692:	
	TATTGAATTC AAACTATGTA CTATTTCCTA AATAATACAA TAAAAACGAC TACCATACTG	60
40	GCCAGAAATA TATTTTATTT GTTACACATT AATTTCAnTC CTCCATAATT TGC	113
	(2) INFORMATION FOR SEQ ID NO: 2693:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2693:	
	GACTTATGTC CGTGTTCCGC TGAAGGCACG TCACGTAAAC TACCCGGTAC AGCT	54
	(2) INFORMATION FOR SEQ ID NO: 2694:	
55		

(A) LENGTH: 204 base pairs (B) TYPE: nucleic acid

5	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2694:	
10	CTTCAGCATG AAGAAGTCGC GTGATATACA TCATATCGAT ATATACCGAT TATATCATCA	60
	GAACATTCTC CTGGTATCAT TAGATAGATG ATAATTTGAC ACAGTCCACA ATTTGTMACA	120
	ACGCCGAGAC TCAATGGCAT CCTGTACnTG ATCTATGCCG GAAAACACTA GTCTATATGC	180
15	CCGCAGACGT CCACTATATG CATC	204
	(2) INFORMATION FOR SEQ ID NO: 2695:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2695:	
	ATAACTCTAA TTTGAATTAT CTCTCACTAT TAAAACGCGA GCTGTGTAAT AACGAACGCT	60
30	GACATAATCT TGTATTGTCG CATCATTCGC TGGTATTATC ATANTGCGGT TA	112
	(2) INFORMATION FOR SEQ ID NO: 2696:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 148 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2696:	
	TGGCAAAATT AGATGTCTGA ATAGTTTTAT TTACAAGTAC AAACCTTGTA CCATTTTAAC	60
	GTAAACACAA TTTACTTATT GAAAAGAAAA TAAATGTATT CATGAANACA CACTTTCCAT	120
45	AGCACTCATC TATAGTACTC AAATTCAG	148
	(2) INFORMATION FOR SEQ ID NO: 2697:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2310

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2697:	
	CCTATAATGC TAAACTTCAT ATATCTCTTT GGCAACTATC TCCCTTCTAT TACCAAAGTT	60
5	ACGATAGCAA nACAATAAAG CAAGCATGTC ATGCTTACTT C	101
	(2) INFORMATION FOR SEQ ID NO: 2698:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2698:	•
	TTGATAACAT TTGAAAAGCT GCTCCGATAT CAGCAACCAT TTCATCGACC ACAATATACG	60
20	ACATAGTCAC AAAACTGATT AGAAGACACC AATTGCTGAT TATCAAATCA CAAATTTAAG	120
	ntgagatica a	131
	(2) INFORMATION FOR SEQ ID NO: 2699:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2699:	
35	GATAGCGGTT GTTAATCAAA CGATGGTACA TGCTTACATG ATGCGCCATG TTTGATAACA	60
33	GCTCTCTATG ATTACGATGG AAGAATGGTT TATTTCATCT CAATTATTCC TATTAAATGn	120
	AACATGCCCT AGCAAACGGA TACAACACAA TCACAACATC ACTTTGAAAT TGTTAAACCT	180
40	GAGAACCACA TACGCGNAAC AC	202
	(2) INFORMATION FOR SEQ ID NO: 2700:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2700:	
	TTCGAATTTA ACAAACGTAT CACGCCATAA AGGTTGTATA TGTTGTTTGT AAATTC	56

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2701: TATTGCGGGC TTATTAGTAC ACGATCTATA TGATGGTCAA ACTTATGTCT TTCATATTCA	60
	AGTGTGACAT TGTGCGGTGA TTATATTTAC GCGTCGTTAT CTACGAACGC CACATTAAGA	120
15	TTCGAAACTG ACAATCAACT CATAACGCCA TGGTCCTAGA AAn	163
	(2) INFORMATION FOR SEQ ID NO: 2702:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2702:	
	TANACAATCG TAATCGAGTC AATGATGTGA ATTGCCCACG TGAGCGCTAA GAATGCGACA	60
	TTCCACACGA TAAGGCAGTG CGCATGCGCA CTGACCTAAT AACACTGAGG ATGAGTACTA	120
30	(2) INFORMATION FOR SEQ ID NO: 2703:	120
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2703:	
	CTGCTTGATT AGGATCGTAT TTATATGAAG ACTGTGTTCC ATAATGATGT GCGTTTTGGC	60
	TGAAGTCCCT TAAATGTACn TGTGTATAAA TGCTATAATT TAG	103
45	(2) INFORMATION FOR SEQ ID NO: 2704:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	TCTATAACGC CTCTCATCGT TTGGTCACAT ATTACCATTA TTCATTTTAT GTTCTCGATA	60
	ATTGTATGCG nTGTTTCTCA CTGTCATCAC ATTGATACAA CTCATTGTCA CTTTATACGA	120
5	TTCACACACC TCGATACGAG TGATGATATA TGACAAAGCT	160
	(2) INFORMATION FOR SEQ ID NO: 2705:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2705:	
	TTATTGTTTA AGATGGTTAA ATGTCATCAT ATAACAnTTA ATTTTTAGCA ATTCGATATG	60
20	CCTATAACCT ATAAATTTCA CGTCAACAGA AAGTGACAGG CATACGGATG TGTGAA	116
	(2) INFORMATION FOR SEQ ID NO: 2706:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 229 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2706:	
	TTACACCTGC AGTGTATGGA CTATGGCTAG ATACAATAAT TTTAGTCATC AAnCTACATC	60
35	ATACAAACTT ACGACTTACA CATATCTGCT TCTANATCTT CTAACTGATT AAAGCTCGAC	120
	ATCGGAAGCT ATTCTAAATT ATTATCATAT ATCTAACTAA CTGACCTAAT ATATACTACC	180
	ATAAATAACC CGCCTCAAGG TTCGCATCCG CATATAATGC TTAGAAGTC	229
40	(2) INFORMATION FOR SEQ ID NO: 2707:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 122 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2707:	
50	TCCATATCAA TCCTGAAAGT ACACATATAT CGTACACCAT ATGGTACAAT TTCCTATAnT	60
	ACACATCACG CATCTTTCAA GACACATGTT AGGCGCTGGT CGGTGTATCT CAGAAATGCA	120

	(2) INFORMATION FOR SEQ ID NO: 2708:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2708:	
	GGAACTITIC TGATTAAGTG TTCACACGCC AACCATAACA TGTATTCATG CACACAATTG	60
15	TTGCTAAnCT CACTAACAAC ATACGACCAT TTTACTTTCA ATACATATGA TCCGTATAAC	120
	TCGAATTCnC TGCTTATAAA TGACCATTTT GACGTTCACA ATGTTAAACG ATTGGAAATT	180
	TTAAAGTTAG CATGTCCACA TCCGAGCAGT AACTATGCCG TACCATTTGT ATA	233
20	(2) INFORMATION FOR SEQ ID NO: 2709:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2709:	
	TTGTACCTAC CAACGAGGAT ACAATGGATG TCACACGAAA ATTGGGATAT AGATGTCCCA	60
	GT	62
35	(2) INFORMATION FOR SEQ ID NO: 2710:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(b) Topobodi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2710:	
45	CTTTAAAAAG GATAAATGAT TGAGANAAAA ACCCATTCGA AAATCATGCT GCTCATGCTG	60
	TAGACTTATC GTTTGGACAC TCGCGTAAGA GCGAGCAGTG AAAT	104
	(2) INFORMATION FOR SEQ ID NO: 2711:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 141 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2711:	
	GTCCAGAATA TTAATCTGAC ACAACCATTT TAGCNGGTGG ATTAAATATA TACGACCTCA	60
5	CCGCAAGAAT CTCTATTTAA CTTAACCTAT CATGAATAAA CTGGCGCTTG TGATATCATA	120
	TGAAGATTAG CGAAAGATAG C	141
10	(2) INFORMATION FOR SEQ ID NO: 2712:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 202 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2712:	
20	TGGTATTGAA TAGCAAAATT TTGACACTAT TTGCATACTC AATGATACAT CATATCGTTA	60
	TATGGATTTT TATGGTCATT AATGGTAAGA ATTTGATACG GAATATTGGC AGGTTTGGAA	120
	ATCAAATAAT ATGAGAAATT GTATTAACNA TTAGTCAAGT TAACGCTCAT AAATAGACTC	180
25	ATChCGCGCT ATAACGCTTA CC	202
	(2) INFORMATION FOR SEQ ID NO: 2713:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2713:	
	TTGAACTGTC TAAGACTTGG ACGCTAAATG AATGCGTTGA TACAAACGGT GAATCC	56
40	(2) INFORMATION FOR SEQ ID NO: 2714:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2714:	
50	CATGACCGAC ATCAGGTGCA AACTCCCTCA TTAATCTGGG AAAACTGTAT CCCGGTAGCT	60

	(2) INFORMATION FOR SEQ ID NO: 2715:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2715:	
	CCTATAACTA CTCAATATTG CAATTACACA TCCTCACTTT TGTCAATTGT TTGACAATCn	60
15	AATACACGTT ATGCACAACT CCATTTTAAC GGAATGGAGA GCACATATGG ACAGTAAATT	120
	AAAT	124
	(2) INFORMATION FOR SEQ ID NO: 2716:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 217 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2716:	
	GGAATATGTA CTATTATCAT TTGATGTTAT TACTCATATT TTTTGTAATG AATGCTATCA	60
30	CCTACAAAAA ATTTACTTGA AACAGTAATA ATAATTAATT ACCACAAACC ATGATAAATT	120
	TAATAnCTAA TCTAAAATAT CGCATGTTCA nAGCCACAAG ATATAACGCG TTCCGTAGAT	180
	GGAACTAGAT AGTATAAGGC GCCGTGGAGC CTGGCCT	217
35	(2) INFORMATION FOR SEQ ID NO: 2717:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2717:	
	ATGACATACG CGCATATACA TGCTATCCCG AACTAATATT GATGCGTATT ATGTAATTGG	60
	AGCGAACACT CA	72
50	(2) INFORMATION FOR SEQ ID NO: 2718:.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 139 base pairs	

(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2718:

CATATCATCA CTATATCCAT TGCGTAATAG TGATGATATT GATTGGCATA	ATGGTATATG	60		
GCAGATACGA TAACATAACN AACACCTCGG ATAATTGCTA TTAGCTGCGA AGTTATCGTG	120		10	
CCTGATTTAA CGATGTAGA	139			
(2) INFORMATION FOR SEQ ID NO: 2719:			•	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			15	•
			20	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2719:				•
CTCTATCATA TCTAGCCATA TGCATGAGAT TATCGTTTAT CTCGACACGC TCTTAAAAGG	60		25	ŧ
CGACACCGGC ATATGATGT	79			•
(2) INFORMATION FOR SEQ ID NO: 2720:				
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			30	
			35	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2720:				
CAATCACAAT TGAAATTACA CAAATACAGC CCATTGCATG ACACAGACCA ATC (2) INFORMATION FOR SEQ ID NO: 2721:	53		40	(
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs				
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			45	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2721:			50	
GCCCGAGGC TACCATTTTA CCATAAAGAC CGGTCTAAAT CCTTCCGGTT TCCATGGGCC	60			Ç
\TTTGG	66			A

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 169 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2722:	
	TRECTEGEEG AAAATGAEEC AGAGEGETGE EGGEACETGT CETACGAGTT GEATGATAAA	60
	GAAGACAGTC ATAAGTGCGG CGACGATATC ATGCCCCGCG CCCACCGGAA GGAGCTGACT	120
15	GGGTTGAAGG CTCTCAAGGG CATCGGTCGA CGCTCTCCCT TATGCGACT	169
	(2) INFORMATION FOR SEQ ID NO: 2723:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2723:	
	CCGGGCCAAG CTGGTGATCA CCGATGTGGA GCGCCAACAT CGCATCGAGG AAAT	54
30	(2) INFORMATION FOR SEQ ID NO: 2724:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2724:	
40	ATCGGTGATC ACCAGCTTGG CCCGGGACAA CTGCAGAGCG TGCAGCAGGA ATTC	54
	(2) INFORMATION FOR SEQ ID NO: 2725:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2725:	
	AAAACCATTG TCCACCTTTA GAAAGCTTTT GTTTTGGGAA TACCTAAACC GTGGTTAATG	60
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 2726:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2726:	
•	TTTAGGCCCT GTAACnGnTT GCCGnTTGGn CCGTGTGTAT ATCGGGGGAA	50
15	(2) INFORMATION FOR SEQ ID NO: 2727:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2727:	
	GGATCATTAA ACGTGTATCA CCATCCAGTT TGCAAGACGG ATAAACTGCT GCAACG	56
	(2) INFORMATION FOR SEQ ID NO: 2728:	
30	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 70 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2728:	
	ACCCATGGAG AATTAAATTT AAAAACCGTA TTCCGGGTGG ATGCTGGGTG GGTAAGTTGG	60
40	CCATACTGGG	70
	(2) INFORMATION FOR SEQ ID NO: 2729:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 54 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2729:	
	ACCACCTTCC CCAATAAGCT GGCCTAAAGC CCCATAATGG GCCATGGTGC GGCC	54
66		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 74 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2730:	
	TGTTTGGGGA CCTTAAATGG TTCCAAATTC CAACCACCCA CCAAAAGAAT TCCAGTTTCC	60
	AATTAAGCCA GCCA .	74
15	(2) INFORMATION FOR SEQ ID NO: 2731:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2731:	
	AAGTTGGGGA TTAAGGCCAG TTATGGAAAG GATGGATGGT CCATTTGGGC TTATTAGAAG	60
	AGCATT	66
30	(2) INFORMATION FOR SEQ ID NO: 2732:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2732:	
40	TTTGnAAAAG CCnGTAAGAG TATTTGATTT TGTTGGAGGC CAAACCAGAA	50
	(2) INFORMATION FOR SEQ ID NO: 2733:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2733:	
	AGTACCAGCG GACAATTCGG ACCCAACTTG GCAATTTGTG GTTTTGGACC AGGAAATAAA	60
55		

	(2) INFORMATION FOR SEQ ID NO: 2734:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2734:	
	CCAGGCTGGC AGTTTTTCTA AAATGGTGGT AGGAAAATTA nCCAAACCAT TTAGGATGGC	60
15	ATGGTCTTCC ACGGATGGCG GCCGTTAACC CCAAAAAAGG CCATTCCATT	111
	(2) INFORMATION FOR SEQ ID NO: 2735:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2735:	
	CGTATGGGAT GGCCATTCTG ATGACACACA ACGGTTAGGT TAGCAACGTT GTCAAA	56
30	(2) INFORMATION FOR SEQ ID NO: 2736:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2736:	
40	CAATCCGGGT GTGCGGGCGT GTGTACAAGA CCCGGGACGA TTACCGACAT	50
	(2) INFORMATION FOR SEQ ID NO: 2737:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2737:	
	TAACATTTAT TGTGGAGAAA GTNAGGTATC GTGGTAGTGA GGATTGTGTT	50
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	`
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2738:	
	TAAATTTAAA CCCGTCCCGG TTTCCCAAAT TTGGAATTTT TTGGAACCCC TGT	53
	(2) INFORMATION FOR SEQ ID NO: 2739:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2739:	
	ATACCCACCT TGGATTCTTA ATACCCCAAA AAGGCCGGGG CAACTTGGCT TAAAAAACTG	60
25	GCTTGTTTAA ATTGGATTTC CGGCT	85
	(2) INFORMATION FOR SEQ ID NO: 2740:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2740:	
	GGAAAGTTTA GTAGTTTAGA GTCGAAAAAT TAGTTTTCTA GTGTAACGAA TCCGGACCCA	60
40	AATTTTTTC	70
	(2) INFORMATION FOR SEQ ID NO: 2741:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2741:	
	CGCGCCAATT TACCTGGCGC AGCAGACGCT CAACGAGGAG CACGGCAGCT GCG	53
55		

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2742:	
	TGAAGAAATC GCACACTA TCGAACGCAG ATCGCACATC GAATGCATCA GAATCAGCTC	6
	(2) INFORMATION FOR SEQ ID NO: 2743:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2743:	
	TATCACCTCT TTTGCATATT ATTAGAATAT ATAATGATCT TTATAGAAAG GAAAGAAGAA	60
25	GAGTTATCAT nGCGATATCG CCCAGCGCGT CGTACACTAT GCCATGAATT ACACAATCAT	120
	GCCTC	125
30	(2) INFORMATION FOR SEQ ID NO: 2744:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2744:	
40	GAATTTCCCC CGAAACCGGG AAAAATTTTT CCCAACCGGT GGCCTTCCCC CGTTCCCGT	59
	(2) INFORMATION FOR SEQ ID NO: 2745:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2745:	
	TTTTCCTTAA GTTAGTTTTT TTATTGGGCC AAAACCGGCC CCAGGAATTG A	51
55		

* .* *

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2746:	
	TAATTTGGTC ATAATGTTGT TTCAGATGAA ATGCTAACAA TACACTGATT ACAGT	55
	(2) INFORMATION FOR SEQ ID NO: 2747:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2747:	
25	ATGGTGGAAT GGGATTTAGG TGGATGGCCC CCCCAACCAG CCGGTCCTTT TTAAGGAACT	60
	TTGT.	64
	(2) INFORMATION FOR SEQ ID NO: 2748:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2748:	
	AACAAGAGTT ACATTGGTTG TGGAAATCAT CGGTTTTAAT TAGTCCAAAA GGATGGATTC	60
40	AATCGGTAGG GGGGTAAG	78
	(2) INFORMATION FOR SEQ ID NO: 2749:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2749:	
	GCAAGTGGCG GAGTCACACT TATAGACAAG AAGTACGACA TCTTGTATGT GGTG	54

5	(1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2750: TATTTAGATT CAAAGCATCA AATTGGTTTC GTACCCTTTT GCACATCGGT TGGGATAA	58
	(2) INFORMATION FOR SEQ ID NO: 2751:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 79 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2751:	
25	GGAAAACCCC CCAAATTTTC CCCCCCGTT GGGAAAAGAG TTCCCAAAGT TGGAATTAGT	60
	TCCCAAACCC GGGAGTTCC	79
	(2) INFORMATION FOR SEQ ID NO: 2752:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2752:	
	AGAACCGAGA GATAGTGCCG AGAGAGCGAG AGGTTTTAAT AGAGATGTTT GGCCGTACTA	60
40	GTTAGCCG	68
	(2) INFORMATION FOR SEQ ID NO: 2753:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2753:	
	ATAATCTATG GGGGGACCGT CTGGTAAGGA ACCTGGTTGC CCTGCCAATG AAGCCACCCT	60
<i>55</i>		

	(2) INFORMATION FOR SEQ ID NO: 2754:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2754:	
	ACAAAGGTTT TACGCCCAAA TTGTTCACTG GCTAACTGGG CGATGGTTAG TATTGGCAGC	60
15	GCAAAAGTGG CAGGGG	76
	(2) INFORMATION FOR SEQ ID NO: 2755:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2755:	
	ACCTCAGGGA CAATTAAAAG TTTTTCTTCG GAATGAATGA CAACAACAAA T	51
30	(2) INFORMATION FOR SEQ ID NO: 2756:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2756:	
40	ACGTATTCCC TCGTTCTTAG GTCTTCTAAA CATAGGTGAC TTTTTGGTCG	50
	(2) INFORMATION FOR SEQ ID NO: 2757:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2757:	
	AAATGCTTCG TATTAACGCC TATTTTAGCT CCGTTATAGA CACAACTTAC ACA	53

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2758: ACACGGCAGC GAATACTCGT TTGGTGAGCC TGTACACATC TAACACGAGA A	51
	(2) INFORMATION FOR SEQ ID NO: 2759:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 115 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
22	(D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2759:	
25	GGGAAAACCA ATTAAGGATT TAAAGGTTNA TTTAAAGGGG CCGCCACCGG GTTGGGGATG	60
23	CCCTTTGGGC ACCTTAAGAA AGCCCCGATG GAAAGGGACC GGTTACCTTA ACCGG	115
	(2) INFORMATION FOR SEQ ID NO: 2760:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 227 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2760:	
	TTTGGCCAGG CCAATTAATT CCTGGTGGCC AATTAAATTT AAGGGGACCT TTGGGGGAAT	60
40	AAGGTTTAAA ATTGGAAAAT GGTCCAATTT GGACCTTTTG GCCAATTGGA TTCCCGGCTT	120
	AAAAAGATTT GGACCGGTAA ATCCCTTTTT AAATTACCTC GGGCCANGGC CCAACCAAGC	180
45	CAAACCAATT TAAATCCGCC TGGAAACCAA CCCATAnTTC CTTTACC	227
45	(2) INFORMATION FOR SEQ ID NO: 2761:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	ACACTATTGT GCCAGCGCAC CTTCGAGGTA TCTTGCATCA CTCAGCTGTT TTTTACTGT	59
	(2) INFORMATION FOR SEQ ID NO: 2762:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	·
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2762:	
15	TTATCCTGTT CCTAAGCCCG ACGGCTCGGC CACACGATTA ACCTTTAACG CCATCTTGTC	50
	CAACCTGT	68
	(2) INFORMATION FOR SEQ ID NO: 2763:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(b) TOPOLOGI: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2763:	·
30	TGGAAAGTAC CATATAAGTA ATGGTAGTCG TTTCAGAAAG ATATAAATCG TTGGGAAAAG	60
	AAGAAATGAC AMATTAATGT AAATATTTGT TCATGTACAA ATAAATATAA TTTATA	116
	(2) INFORMATION FOR SEQ ID NO: 2764:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2764:	
45	TTGTTACAGT GGTGTAGCGG ATCGCACGGC CTTCAACTAA GTGGTTCAAT GCTTGATACC	60
	AGTTATGAGT GTTGGTGC	78
	(2) INFORMATION FOR SEQ ID NO: 2765:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2765:	
	ATATATTCGT ATGCACCTTT TGTAAGGCTT TGTAATACGA AAATTATCAC TACAATGATT	60
5	GCTGTAACGA GTAACGACAT ATATGGCACA CCGTTTTTAT THGTTTTACC AA	112
	(2) INFORMATION FOR SEQ ID NO: 2766:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2766:	
	TATTGAAGAT TTTTTCGAAG ATAAAGGTGA CACATATTCA TGTCATGTTT AATATCGTTA	60
20	CCTTACGTAA CCATATAAGA CTGTAACTTG TGTCATATCA TTCGTAGAAC nTTTGGAAAT	120
	GAT	· 123
25	(2) INFORMATION FOR SEQ ID NO: 2767:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2767:	
35	GTCCGCGCCA CGGAATGGCC CACGGGACGA TAAGTGAGGG CACCGACGGC CGAACCCAAG	60
-	(2) INFORMATION FOR SEQ ID NO: 2768:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear	
45		
70	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2768:	
	GTACGCGGAG CACGAATTCC GCGGATCTGG GAGCATCTCT AGGTAAnTTT	50
50	(2) INFORMATION FOR SEQ ID NO: 2769:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 53 base pairs(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2769:	
5	CTTAGGTAGC TCAGTGTGT ATTGAGAGGC CTGTTGGCAG GCCCCGGACG ATC	53
•	(2) INFORMATION FOR SEQ ID NO: 2770:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2770:	
	AAATTGATAG CGTGCACAAA CCAGGTCCAT CCACGAACAT GCCAATCCAG CCCAGGAAGT	60
22	AATTGCCCG	69
20	(2) INFORMATION FOR SEQ ID NO: 2771:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2771:	
	ACGATCATCT GGATGGATAT ACAGAACAGT GTGATTGTAC GTGGTGGGGA AA	52
4-	(2) INFORMATION FOR SEQ ID NO: 2772:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
40	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2772:	
45	TTAACAGTAT GATATTATCA CACGTGAATA GGATATGCCA ACACTGGCAT CGTTGGGGAT	60
	AGCGTAATAC	70
	(2) INFORMATION FOR SEQ ID NO: 2773:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 67 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2773:	
_	AACATTGTAT TCGTGATTAA GACTTCGATC GGTTCAGTAT TCGGCAGATC CACATGTGAC	6
5	CATGCTT	61
	(2) INFORMATION FOR SEQ ID NO: 2774:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2774:	
	CACCCTTGTG ATATCACATT TGTATGTGTT AAGAGGGAGC CCCTTTCCCG ATCAACTGGC	60
20	GATAAAAACA GTTGAnAAGT GGGCGGGGGT TATTATTTCT GATGACGGCG GGGTTTTTTC	120
	(2) INFORMATION FOR SEQ ID NO: 2775:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2775:	
	AACCGTTGCA GGTNAAGCTG GGCNCACCAT TCTTCTCTAT TAATGGTTCA	50
35	(2) INFORMATION FOR SEQ ID NO: 2776:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2776:	
,	CATGTACGGT GTCCACACAA GAAGTATTTA GGTGGTTGTT CCCGGATTTA ACCTGGC	57
	(2) INFORMATION FOR SEQ ID NO: 2777:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2777:	
5	AACGACCCCG GGTTCCACCG GGGTCCATTA AGCCAAGGGC CAGGGGACCC C	51
J	(2) INFORMATION FOR SEQ ID NO: 2778:	•
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2778:	
	TTGTTCCGGC CTAAAAAATT TAAATTGAAC CCAAGGGTTG CCTTGGGTTG GGTAATCCAT	60
	TTTTTGAATA AACCTTTGnC CCTAATGAAT TTTTCCGCCA TTTAAAGGGT GTCCGCCAAT	120
20	ccgg	124
	(2) INFORMATION FOR SEQ ID NO: 2779:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2779:	
	GTAAATTTGG GAATTACCGG AAAATTAAGG AAAGGCCAGT AAGGGGTTTC CAGGCCAA	58
35	(2) INFORMATION FOR SEQ ID NO: 2780:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2780:	
1 0	GCACTCCAGC CTGAGCACCA GGGTGAGACC CTGTCTCAAG AACAAAAACA nCAACAnCAA	60
	AAAACTTGTT CAAAACTCAC TTCCTGCAGT AATCTTTCCT TGAACAAACT CACCCTCTAA	120
50	TTCCCACCTG CAATTGTGTG TAGAAATCCA TTCTCGTGTG TAATTTTGGG CTTATATGCA	180
	CACATTGAAA ATCCAAGAGC CAGAAAGAGC TCTAAGGAAT TATCCAGTCC AGCTCTGTGC	240

	AGCCTGGGCT AGGACCCAGA TCTTTCCCAT TTCCCTGTTC CAAAAATTTT nGGCACAGGG	360
	TGGCCACCCT G	371
5	(2) INFORMATION FOR SEQ ID NO: 2781:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 133 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2781:	
	GGGGTTGCCA AAGGGGTGTT AAATTTAAGT CCGATGAAAA TTAAGnAAAA AAATCCCATT	60
	TTCCCTTCCG GGTCCGTTGT TGGGGCCTTA ATTTCCCGCC AATCCAAGTT TGGTGAATGA	120
20	AATTAATTAC CGT	133
	(2) INFORMATION FOR SEQ ID NO: 2782:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2782:	
	GTTCAAGTTG ACGCTGGATC ATCTGGTACA CACGTATCCT GCATACTATA GATGTCAT	58
35	(2) INFORMATION FOR SEQ ID NO: 2783:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2783:	
45	GCTAATTATA GGCCGTCAGG CATTACGnGA TCGAATCTGG CAACTCACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2784:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2784:	
	GCCnCnCTCT GTGACACTGT GTATATACAC CCGCGGGAAT ATCTCCAACG	50
5	(2) INFORMATION FOR SEQ ID NO: 2785:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 111 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2785:	
	CTTTGTCTGA CATATTGGGG CAGTGATTTT TGGGACGGTT CTACATGTCG AGTACTTTAG	60
	TCAGAGTTGT GAGTAGCGGA CGGGThTACT TGATATACCC TTAATGTGTA T	111
20	(2) INFORMATION FOR SEQ ID NO: 2786:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2786: CATGATGATA CTTGCATGTA CGTTGTACGT GAACGTACAG TTACGTTGTC	50
	(2) INFORMATION FOR SEQ ID NO: 2787:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2787:	
	TCAGCAAGTA GTAAGGATAT CAAACTATGA TCTATTTGAT GTTATGCCAT AA	52
45	(2) INFORMATION FOR SEQ ID NO: 2788:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCATCATGGA ATATTAAAAC AGCTGATATG TTTGAGTAAT GATTGATTGA CGAGATATGC	60
	GGCA	64
5	(2) INFORMATION FOR SEQ ID NO: 2789:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2789:	
	TGAGAGAAGT CACAGTCGCC AGCGGCAAAG AACCCGnnAA GATGTGNGCA	50
	(2) INFORMATION FOR SEQ ID NO: 2790:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2790:	
30	CAGTGTATGG AATCTTGTTT GAGTGTGAGA GTCAAAGACT TGGTGATTGA ATGGAAAAAT	60
00	TGAA	64
	(2) INFORMATION FOR SEQ ID NO: 2791:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2791:	
	ACAANGGGTG AAGTTCTCCC ACATGCTGTA TACCGTGGGA TTATTTTTAA	50
45	(2) INFORMATION FOR SEQ ID NO: 2792:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 83 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	ATTCCTATTC AACAACGGAT ACATAATCTT TTATATCTTC CTTCTAGTCA TATGATACTG	60
	GAATAAGTGA TATTTCTTAT AAT	83
5	(2) INFORMATION FOR SEQ ID NO: 2793:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2793:	
	CATATGTCAT CGTACGTAAT CATCGATGAA ATATCAACAT CTCGACTTAA TAGGTCAACA	60
	AGAT	64
20	(2) INFORMATION FOR SEQ ID NO: 2794:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEO ID NO: 2794:	
30	CCCTACTCCG CGCAATAACC GCATTACCAG ATGCGCTTCC ACTGAGGAAC GACGGAT	57
	(2) INFORMATION FOR SEQ ID NO: 2795:	٠,
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2795:	
	AGATAAAGTG TCATCTATAT CCATCTATCA ATATAGATAT GTTTACGGCC GATTTCAATC	60
45	CGCAA	65
	(2) INFORMATION FOR SEQ ID NO: 2796:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2796:	
	TATACGCCTC ATTACACCCA ATTGGACCCT TTACGTATGG AGTACATTAT AGAATCGA	58
5	(2) INFORMATION FOR SEQ ID NO: 2797:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2797:	
	NGCTAAGAAT TTATAAGAGG TTTCGGCAGA TATATATACG CAAGTATCTG	50
	(2) INFORMATION FOR SEQ ID NO: 2798:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2798:	
	AAGCAGTCTT TCACAAAAAG TGAATAATCA CTAGTTCATT AATTTGCATT TGAACCTTCA	60
30	TATAATGCAT ATTACTTAAT GTACAAGCAA AGATGTATTT ACCTATCAAA GAATTTNC	118
	(2) INFORMATION FOR SEQ ID NO: 2799:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2799:	
	CCATAGAACC TGTGAATACC TATACATATC ATACTGTGGA ATTCGTTACG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2800:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CCAATTCAGA CTGTTATTCT CTCTTCGTGA TAACCCGTGA TGTTTGTCTG C	51
	(2) INFORMATION FOR SEQ ID NO: 2801:	
5.	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2801:	
15	GGGGGnGCAT ACCGCACCGA AGCATCAGAC GATGTGAGCG ACCTACCTCC	50
	(2) INFORMATION FOR SEQ ID NO: 2802:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2802:	
	CCGTAGCGCA CATATGACGA GACCAAGGAT AACGTGCAAn GnCATATTGT	50
	(2) INFORMATION FOR SEQ ID NO: 2803:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	, , , , , , , , , , , , , , , , , , ,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2803:	
	CACGTCATGA ACGTGCATTC AACACAATCA TTTACGAGAT GGACCAAGAC	50
40	(2) INFORMATION FOR SEQ ID NO: 2804:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 126 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2804:	
	TATGGTGTTT ATTTTAGCGC TNGTTGTGCT TTGTCTTCAG CATCTATAAC CTAGTGCGAT	60

	CTATTG	126
	(2) INFORMATION FOR SEQ ID NO: 2805:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 88 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2805:	
15	AAAAGCGCAT ATGGTGTTTT TCTCATATCA CTCCAGGACT CAGCAGCTGG AAGGAGTTAA	60
15	GAAGTAATAA GGTGCCACCC TAAATCCA	88
	(2) INFORMATION FOR SEQ ID NO: 2806:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2806:	
	TGGATCCGGT ACCAAATAGG GACTACCGGG AATGTCCCGG GGGGCCTAAT GCCGAATGGG	60
30	GCAACG	66
	(2) INFORMATION FOR SEQ ID NO: 2807:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2807:	
	CCCGCTAACG TGGGGAAAGT TTTGAAGTTA AGAAGGAATG GATTCCTAAC GGGGCGGGGT	60
45	CCAAAC	66
	(2) INFORMATION FOR SEQ ID NO: 2808:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2808:	
	ACAAAGCAGT ACTGAACTGG TTTCGTTGGA GCCCGTGTTG CTGTTTATTC ACGGCA	56
5	(2) INFORMATION FOR SEQ ID NO: 2809:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2809:	
	AGGGGGCGTA CAACATAGAT TTGCGAGATA CTCAGCATTA CACTTCCATT TAACTTATTA	60
	TCC	63
20	(2) INFORMATION FOR SEQ ID NO: 2810:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2810:	
30	TTAGGCGCCT GTTCCAACCG CACCCATATA AGGCGGTCGG CTGCACGCAC GACGTATG	58
	(2) INFORMATION FOR SEQ ID NO: 2811:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2811:	
	AAACCCCCAA GGAATTAATT TTCCGGTTTT CCAACCCCTT AAAAAGGGAA AGGCCAAT	58
45	(2) INFORMATION FOR SEQ ID NO: 2812:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 72 base pairs(B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	CATCATTAAG GCAAAAACTT TCACAAAGTC ATGAGGCGCA AAAGGTATTA TTATAACACA	60
	TCCCGCGTTG GG	72
5	(2) INFORMATION FOR SEQ ID NO: 2813:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2813:	
	CCATTTAAAG CGGTACGGGG CTTGGTTCAG GAACGTCGTT AGACAAATTC GGT	53
	(2) INFORMATION FOR SEQ ID NO: 2814:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2814:	
	TAGTACCCAA TTTCCAGTCG AACCAGGATG GGACCAGAGG CCAAACCAAC GTT	53
30	(2) INFORMATION FOR SEQ ID NO: 2815:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2815:	
40	GAAAAAAAGG CCTTGTTTAC CAAAGGGGCC AATTTTTTCG GTTCAAGGTC CAAACCTACC	60
	TT	62
45	(2) INFORMATION FOR SEQ ID NO: 2816:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TCTGAATGAC GCCGAAATCC CATCTGAATT CATGGGATTT TCCACTTTCA	50
	(2) INFORMATION FOR SEQ ID NO: 2817:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2817:	
15	CGTTACTAAA GCTACATAGT GCGTCATTTA AGATTATAGC AAGTAGCATA T	51
	(2) INFORMATION FOR SEQ ID NO: 2818:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs	
20	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2818:	
	CATTCACCAT AATATTCATT GTTCCATTAG CATATCAGGC ATGTCACGTG CACA	54
	(2) INFORMATION FOR SEQ ID NO: 2819:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2819:	
40	GTGTATCAAA TGAGCATGTT nCAATGGTTC AnCATGGCGT TTATGGCACT	50
	(2) INFORMATION FOR SEQ ID NO: 2820:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2820:	
	ACAATTGCGG CTGCTCATTG TGAGCACGAC TTTATCATGG TTGGGTTCAG	50

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2821:	
	CAGTAGTACG TAAAAATGAA TCACTTGAAG ATGCGTACGT AGATTTTAAA CGTCAGTTCT	60
	AAAAAGTGGA CAATCCAAGA GACGTAACGG AATTTnCGAA AA	102
15	(2) INFORMATION FOR SEQ ID NO: 2822:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2822:	
25	GAGTACTTAA TCCGGCACCG TTTACTTCTG GGGGCATCGA CTAAGTGGGG CGGCC	55
	(2) INFORMATION FOR SEQ ID NO: 2823:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 71 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2823:	
	ATTGGTTTCT CATAAACACT TTTCTATGAA TTTGTATGTA TTTGTTTATT AAAATCTCTA	60
40	ATTCTTATGG A	71
	(2) INFORMATION FOR SEQ ID NO: 2824:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2824:	
	CCATTGAGTG TGAGTATATC ATCGATCAAT ATGCAACATT TATCAGGTGC ATGTTGCTTA	60

	TGGATAATTG AACA	134
	(2) INFORMATION FOR SEQ ID NO: 2825:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2825:	
15	CCAGAATGAT GAGCTACAGG ATCAGCCCAG ATATGCAGGT AAACGGGCCA ACCATTG	57
	(2) INFORMATION FOR SEQ ID NO: 2826:	
20	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 89 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2826:	
	CAATAATGCT GAACAGCAAC GCATCTCATT CTAAAATCGC TCAGAATCAC ATCCCATGCA	60
20	CACATAATAA GTGGCACTTA GCTTAAAAT	89
30	(2) INFORMATION FOR SEQ ID NO: 2827:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2827:	
	CGGATTAGTG GTGTAAACTG GGTGACCCAT ACCACACCTC GCGTGTTGTG AAAAAAAGGAC	60
	TTAA	64
45	(2) INFORMATION FOR SEQ ID NO: 2828:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs	
50	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	TATACAGAAA ACAGCGTGCC GTTATCCATT ATCACATGAC ATATGTAGTC C	51
	(2) INFORMATION FOR SEQ ID NO: 2829:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2829:	
15	GAGATACGGT CTTCGTATAT GATATGTGCA TATTTAGATA GTCATTTATG AGAGAACGTG	60
	GACGTGAG	68
	(2) INFORMATION FOR SEQ ID NO: 2830:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2830:	
	TGATGATTGT TTATGATACG ATATGTAAAT GATAATCATC CAGGAGGTCT AGCATGGT	58
30	(2) INFORMATION FOR SEQ ID NO: 2831:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2831:	
40	CCTAACAAAC ATAATTAAAC CCATAAATGC ATCCAATGCG GTTAAACCAT GAAA	54
	(2) INFORMATION FOR SEQ ID NO: 2832:	24
40	(i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2832:	

	(2) INFORMATION FOR SEQ ID NO: 2833:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2833:	
	GTCTGCTACC CTTTCAGAGC AACATGCTGA GTGTATAATG CCGTGTATAG GGGACAATGC	6
15	CATTCACTA	6
	(2) INFORMATION FOR SEQ ID NO: 2834:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2834: AACACCAGCT GGTAAGTATC ACGTTACATT TTGTGTCTTC ATGATTAATA AAAAC	
		5
	(2) INFORMATION FOR SEQ ID NO: 2835:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2835:	
	AGAGCTTGGA TGTCGTTCGT AATTGATGCT CTAGCTCCAT GGGGCCCATG	50
40	(2) INFORMATION FOR SEQ ID NO: 2836:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid	
45	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2836:	
	TTTCGTCACT ATTGCTCATG CATAGACATT TGCAATACCG GCAAATGACG ATGGNATATG	60

	TTAATGGTCA ATACAGGG	138
	(2) INFORMATION FOR SEQ ID NO: 2837:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 61 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2837:	
15	GTTGGCAACT TCAGTCGCTA CTTTAACGCA TCTCACAGTC CTCCTCCCAA AGAGAACGTA	60
		51
	(2) INFORMATION FOR SEQ ID NO: 2838:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2838:	
	ACGTGAATCC CGTGAGGCCA ACAGTGATTT GGATAATTAC ATGGATGTTT GACTAATGGT	60
30	CATTCACACC CAGATCAG	78
	(2) INFORMATION FOR SEQ ID NO: 2839:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 90 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2839:	
	ACTTAAAATC TCCTCTTGCC TAACTTCCAC ATTCTTATCG ATATGAATAC ACCATACGTT	60
45	TTATAGATAA GTTGATGTTG ATGCATATGT	90
	(2) INFORMATION FOR SEQ ID NO: 2840:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 61 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2840:	
	TATATTTAGT CTGTTATACA AGGTGTATCA CAGCGGTAAT ATGCCTCTAC ATGGCCATAT	60
5	G	61
	(2) INFORMATION FOR SEQ ID NO: 2841:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2841:	
	GGGCCCCGGC GGCAGGGAGG AAGGGGGGCAA GGGCGGCGCC AAGACCACGA CCGGCACC	58
20	(2) INFORMATION FOR SEQ ID NO: 2842:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2842: TGTACAGGTG CAGTTAGACC GCCTGACGGA ACGAGACGTG CAATTGCCAG CAACGCACAA	60
	(2) INFORMATION FOR SEQ ID NO: 2843:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2843:	
	AAACATGTGA AGTGATCGAG GTATGGACGG AGTAATGATC GCACAAGACA TAGCATCCCC	60
45	GT	62
	(2) INFORMATION FOR SEQ ID NO: 2844:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2844:	
_	ACGATITAGT TTGAATTTCT ATTAGGGTTT GGTGATTCTA CTACTTCTGA TA	52
5	(2) INFORMATION FOR SEQ ID NO: 2845:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2845:	
	GATTATCACA ATTATGCAAA GTTGTCTAAT CGTTAGACCA ATTTCTGTTC AAACACCACA	60
	ATC	63
20	(2) INFORMATION FOR SEQ ID NO: 2846:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2845:	
30	CGTTATATAA GAnCGACATG GAAGCATGAT GAAATATTGA ATACATCATA	50
	(2) INFORMATION FOR SEQ ID NO: 2847:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2847:	
	CCACAGGTGC ATCCGCCTGG TATGGAGCCG GCCAGTCTTC ACTGCTTTCA C	51
45	(2) INFORMATION FOR SEQ ID NO: 2848:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 113 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	

	AAAACTGTCC CAAGCTGTTT TTATTTAGAG CAACCAATCC AATTTAAACC CCCCACCATT	60
5	ATTITAAATA ATACCATTCC AGCGAAAGCC CTTTCCAnGG TTTTGGAATA TAA	113
Ū	(2) INFORMATION FOR SEQ ID NO: 2849:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 155 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2849:	
	CATCTGGAAC TTTTTAATTC CAGAAGGGTT CCAGAAGGTT TCGAAATCCC TCCTAATGGG	60
	CTCCATTAAC GGATTTTAAA TTTTTTAATA ATTTTAGGCC AAAAAATTAA TTTCCAGGAA	120
20	AAGTAAGTTT CCAACCCGGG TAAGAAATTA CCNAA	155
	(2) INFORMATION FOR SEQ ID NO: 2850:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 64 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2850:	
	CACAAACTAA CATAGAAGGG CCATCATCAG GTGCTATTAA ATATCTACGC TAGATTGTAA	60
35	ATCA	64
	(2) INFORMATION FOR SEQ ID NO: 2851:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2851:	
	AATTATTCAT CAATAGCTCT TTACGATTCA CAAATCTAGG TACTTTTCAG ATCT	54
	(2) INFORMATION FOR SEQ ID NO: 2852:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 58 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2852:	
	AAGCCCCTTT AAACTGGGCC TTTAAGGAAC GGTGGCGAAA ATCCCCCAAAT TCCGGGCA	58
5	(2) INFORMATION FOR SEQ ID NO: 2853:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 103 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2853:	
	AAAGGTTTCC ATTCGGTCCC ATTAAGATTT TTTTGGAAAT TCCATGGAAG GATGGTTGGT	60
	CCTTTAGGCC TGGTAGGTTA TCCTTTTTGn AGGTGGTATC CAG	103
20	(2) INFORMATION FOR SEQ ID NO: 2854:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2854:	
	GGCCACGGTC ATTCCTCCAA GCCAACCAGT GGACAAGATG GGTGGAAGGC GCAGG	55
	(2) INFORMATION FOR SEQ ID NO: 2855:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
. •	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2855:	
	TATTTGGCAT TCAAATAACG TAAACGGATT TTGAAGTAAT TTACATAAAG AGG	53
45	(2) INFORMATION FOR SEQ ID NO: 2856:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2856:	
	ACAATTTGAC AATGACTGGG ATGCTGACAC TTGATATGAA GACAATTGAA GAT	53
5	(2) INFORMATION FOR SEQ ID NO: 2857:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2857:	
	AACTGCGTTA CATGCTTTGC TTTTAACTGA ACCCAGAACA ACGGTTTCGG	50
	(2) INFORMATION FOR SEQ ID NO: 2858:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	·	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2858:	
30	CTTTnnTAnC TTCATCTCTA TTATTATTGT CCGAATTACT ACGTGGACAA	50
	(2) INFORMATION FOR SEQ ID NO: 2859:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2859:	
	TCCAGGTCGA ATTTATTGCC AATTAGCCTC CCGGGTTAAA AGGGTGGGTG TCGGGTAAAA	60
	TCGTAC	66
45	(2) INFORMATION FOR SEQ ID NO: 2860:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GGTATCCAGT CCCCGGAGG GGTGACAAAC TTCCACGCCC AGTGGGGGGA CTACCGTTTT	60
	GGACCAAAGC CC	72
5	(2) INFORMATION FOR SEQ ID NO: 2861:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2861:	
	AGTGTCGAAC AATTAAAGAT ATTGAGTGAC AGGATTGCTT AAGGGCCGGT CGGAACAG	58
	(2) INFORMATION FOR SEQ ID NO: 2862:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2862:	
	TTAGCGGTAA ATCCGAAGAA CTAAGAAGAC GTCAAGAAGG GGATATACGC	50
30	(2) INFORMATION FOR SEQ ID NO: 2863:	50
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2863:	
	GCAAAAnTGA GAGCTCAANC TGCANNAAGC AAATCAACGA AAGATTAGGT	50
	(2) INFORMATION FOR SEQ ID NO: 2864:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2864:	

	AACTATTCTG GATTTGTGCA GTGGCTATGG GGATGAGTGC GTTCCCCTCT TTCATGACGC	120
•	AGGCGAACGC CAGCAACGCA ACCACTGATC AATGCTGAGC CAGCTGTAGC CGCCCAGACG	180
5	GAACAAAATC CGCAGTGGGG GCAAGTGATG CCGGGCGTGC ANGGCGCTGA TGNCAGTTCG	240
	TGGCAG	246
10	(2) INFORMATION FOR SEQ ID NO: 2865:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2865:	
20	ACAGATGATA CCTCTTGATC ACTTGCCAGA GATCGTCTAA GTCGTCCTTG	50
	(2) INFORMATION FOR SEQ ID NO: 2866:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2866:	
	AATACCACGC TGACCTTAAT AAGCCATCAT GGGGGAAATC ATGACCGCAA T	51
35	(2) INFORMATION FOR SEQ ID NO: 2867:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid	
40	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2867:	
45	CAACTTGGTA AGTGGTCGTT TTGGGCCCCA CCCTACCCGT TTGGACCTGG	50
	(2) INFORMATION FOR SEQ ID NO: 2868:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 223 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2868:	
	CCCAACCCGG TTCCGGGCCT TAATTTTTTn CCTTTTAAAG GAAAAAAAGG AAAAACCGGT	60
5	TAATTCCGGC CCAAAAAnCC CGGAAGTTGG AAACCTTTTT TTAATAAAA TAATGGACCG	120
	TCCCAACCTT TGTTGCCAAA AGGTGGCCTA AAGGTTTAAA AAAAACCGTT AAAATCCATG	180
	GCCAGGATCC AGCCTAAAAT TGAAACCATT ATAATTGATA AAC	223
10	(2) INFORMATION FOR SEQ ID NO: 2869:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 66 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2869:	. •
	TGGACCTTTG GTAATATGAA TTGAATGGTG CTTTGTGGAA ATCGGGAATT CGCCTCGTGC	60
	CTTGTA	66
25	(2) INFORMATION FOR SEQ ID NO: 2870:	
<i>30</i> _.	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2870:	
	AANAGCCANG ATCATGGTAT ATCCATTAAG AGACGAGAAG ATCGATGCCC	50
	(2) INFORMATION FOR SEQ ID NO: 2871:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDES: double	
45	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2871:	
50	TTATTTGGAC TTACAAGGAG AATAGTCAnT TCTAGGAAAG TGGTGCGAAA GTCACTTACC	60
30	AATATACGGG GATTATTCAT CCATCGTCGG TCGGTCATAT GATACGGAAT TAACACGCCA	120
	CTCCG	125

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2872: CAACACCTGA CGTGTATAGA ACTCATCTCT TCAATAACGT CGCTGTCAGG TTACGAAGTC	60
	GA	62
15	(2) INFORMATION FOR SEQ ID NO: 2873:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(5) ISISSII. IINCAI	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2873:	
23	TATACATTCC ATTTAACACC TTAACACATG CAAGTTACTT CCTCCTCAAG CATC	54
	(2) INFORMATION FOR SEQ ID NO: 2874:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (3) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2874:	
	GCTGAAAGGA GACTTCTGCA GGTGTGATCA CAAACTGCAC ATCTACACAA GCCATT	56
40	(2) INFORMATION FOR SEQ ID NO: 2875:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 112 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2875:	
50	AGCGCGACCG CGAGAAGGGA GGGGGAGCCA GAGCAGCAGC AGGCCCCCAGG GCGAAACCCC	60
	CAACAGGAGC GAGNAAGAAG GAGGGAAAGC CCAGCAGGGG CGCCCAGGCC AG	112
		114
<i>55</i>		

5	(A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2876:	
	GNGCGTTNNA NCGGTCGCGT AGAGATGTCG GGTCTGTAGT AGATCTGGGG	5
	(2) INFORMATION FOR SEQ ID NO: 2877:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2877:	
	ACCTTGACTT TGCAGACGAT GATGCTTTTG GCTGGGATCT TCACCATCTG GCAACTGAAT	60
25	ATGGTTGG	68
	(2) INFORMATION FOR SEQ ID NO: 2878:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2878:	
	CTCCACCTGA TGCATGCCCC CATATCAGGA AAATGATAAC CTCGGACACC TTC	53
40	(2) INFORMATION FOR SEQ ID NO: 2879:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2879:	
	GGGAACTTTG ATCTGCCCTT GAAATCCTGA AAAATGTTTG CAAACGGGAA TGATCTTGTG	60
	CCTTGCTTTG AATGA	75

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2880:	
10	AGAGAGGCCG AGATGGCAGA TGAGATTGCC AAGGCTCAGG TCGCTCGGCC TGGTGGCGAC	60
	ACGATCTTCG GGAAGATCAT CCGCAAGAAA TACCAGCCAA AATCATTTTT GAGGATGACC	120
15	GGTGCCTTGC TTTCCATGAC ATTTCCCCTC AAGCACCAAC ACATTTTCTG GTGATACCCA	180
	AGAAACATAT ATCCCAGATT TCTGTGGCAG AAGATGATGA TGAAAGTCTT CTTGGACACT	240
÷	TAATGATTGT TGGCAAGAAA TGTGCTGCGG ATCTGGGCCT GAATAAGGTT ATCGANGGTG	300
20	GTGAnTGAAG TTCAGnGGTG GACATCCGTC TATCACGTTC A	341
	(2) INFORMATION FOR SEQ ID NO: 2881:	
25	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2881:	
	GCGGTTACTG TGTAATGGCA TTAAATATGA AACGAGCCGA TGGAGCGTTG	50
35	(2) INFORMATION FOR SEQ ID NO: 2882:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2882:	
45	CTCATCATTT GTAGTTGGAA AGGTTTATGT ACATTTGGAA AACACCGACA CATGACGTAT	60
	CTCCATTGCA ATTTACACAA G	81
50	(2) INFORMATION FOR SEQ ID NO: 2883:	
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 77 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2883:	
5	TITITITIT TPITITITI TTITITITI TITITITIT TITITITI	60
	TITITITIT TITITIT	77
	(2) INFORMATION FOR SEQ ID NO: 2884:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 104 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2884:	
20	ACGGTGTGCT TGATGCACTT GGAACTGTGA GTTTGGGTGT GACTTTGCTT TGGCTTGCTT	60
	GCTGAATGTT TTGACTATGC ATTGCGTATA TGACTTGNAG CGCG	104
	(2) INFORMATION FOR SEQ ID NO: 2885:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2885:	
35	AGCAACGTGT CTGTCAACGT GGTGTCATTG GAAAAGGCGT CATGTATTGn CCGGTGGGAT	60
	TTACGTGTAG TCACACATGT GCCCAATTAT TGTTTTGAGG CCAACTTGAG TAGGTTGATG	120
	GTTATGT	127
40	(2) INFORMATION FOR SEQ ID NO: 2886:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(b) Toroboot. IImear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2886:	
	TGAGCGAGTG CTGTGTGAGC GCGAGGTTGT GAGAGTTAGA ACCTTGTGAG C	51
	(2) INFORMATION FOR SEQ ID NO: 2887:	
55		

5	(A) LENGTH: 63 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2887:	
10	TTGAAACCGC GAACCTGAGT TCTGGTTAAC TACAGTCTGG TATACACATT GAGGGAAACT	6
	TCG	6
	(2) INFORMATION FOR SEQ ID NO: 2888:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
20	(b) Topologi: Timear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2888:	
25	AGTANCATAC NCAACTATCT CAGCATACAA TATTGGNCAC CTCGCAGCTT	50
23	(2) INFORMATION FOR SEQ ID NO: 2889:	-
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2889:	
	AAAnATAATC CCGGTTTTAT CCCCCTACCT AATTAGTGGG AAAAGTACCA ATTGCCAATT	60
40	GGTAAAATAG GTTGCCATAA CGGCCTCCCA AAAGTAAATT CCCTTTTTTG GTTTA	115
40	(2) INFORMATION FOR SEQ ID NO: 2890:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 147 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2890:	
	AATCGGTCCG TTATACTCTT CATAATATTG TGGCGCAACC ATTTCAACTT TATCTTTTCT	60
55	TATAAATAGC ATCATCGCAA TANTAAAGAA TAATATCGGA ATGATTAAAG TAACGATAAG	120

(2) INFORMATION FOR SEQ ID NO: 2891:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2891:	
	AACACAACAA GTTGTTAAAG ATGCATTTTT ATCACAACAT AAATCTATTG GACGTAAAGC	60
15	TCAAGAAGCA TACTTATCAT ATCGTTTAGA ACAAGAGTAT AGTAAAGATG ATATCTTCCA	120
	AGTATATCTA AACAAAATTT ACTATTCTGA TGGCGTAACA GGTATTAAAG CTGCTGCTAA	180
	GTATTACTTT AATAAAGATT TAAAAGATTT AAACTTAGCG GAAGAAGCTT ATTTAGCCGG	240
20	TTTACCTCAG GTTCCAAACA ACTATAATAT TTATGATCAT CCAAAAGCTG CTGAAGATCG	300
	TAAAAnCACT GTTTTATACT TAATGCATTA TCATAAACGC ATTACAGATA AACAGTGGGA	360
	AGATGCTAAG AAAATCGATT TAAAAGCGAA CTTAGTAAAT	400
25	(2) INFORMATION FOR SEQ ID NO: 2892:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ 1D NO: 2892:	
	CCTAATTAAA CCTCCATCCA TCCTTTTGAA GGGGGATCTT TAATAAAnCC GGAAAGTTTG	60
	GGGGAAAAAT CCTCCATCCT TTGAAGGGGG GGGCTTTCCA ATGGCCTTTA AGAATGGCCT	120
40	TTTCCAAGCC AACTTTTAAT TCCCCCGGT	149
	(2) INFORMATION FOR SEQ ID NO: 2893:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2893:	
	GCCCGAAGTA TTCTTGTAAG TATTATGATA CTCGGTnCTT TTTATGATTT ATGTTAATTT	60

	TTATGTTAGT	130
	(2) INFORMATION FOR SEQ ID NO: 2894:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2894:	
15	GATGAGACCT GAATTGATTG CAACCCAAAT CGGCATATGC AAATTGCATT AAAGTTGGTT	60
	CAACG	65
	(2) INFORMATION FOR SEQ ID NO: 2895:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2895:	
	CGCACAACAC ATTTAGCGAC TCAGATGTCG CGCGAATGGA CCGATATGGC GTGTCTACAC	60
30	ATTGTCATAT TGTACGAATA GATGAGAAAT ThCAAAGACC GA	102
	(2) INFORMATION FOR SEQ ID NO: 2896:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2896:	
	ATTAAGTGAT GGGCTAATGT TTACGCCCCA ACCAAAGGTT TCCAAAGAGC CCTTGTTGGG	60
45	сстататта	69
	(2) INFORMATION FOR SEQ ID NO: 2897:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2897:	
ATTGAATTAA TGTCCCAACC AAACGAATGG TTGCCCTTTT TCCATCCAAA GGGGGCTAAT	60
TGGGAAGGT ATTGGTTCCC	80
(2) INFORMATION FOR SEQ ID NO: 2898:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2898:	
CAAATCCTGG AGATGAGCGT AACCAAAAAT AACGTTGAGA AAATGACCAC ACA	53
(2) INFORMATION FOR SEQ ID NO: 2899:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2899: ATCGTGAACC TCTCATCCAA TCACTCATGT GAGTGAATTG GATGACCTGA A	51
(2) INFORMATION FOR SEQ ID NO: 2900:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 2900;	
AGCTTTCAGG GCTATATCAG ACCCACGCAT TCATCCACGT GAATGAAACA CG	52
(2) INFORMATION FOR SEQ ID NO: 2901:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	ATTGAATTAA TGTCCCAACC AAACGAATGG TTGCCCTTTT TCCATCCAAA GGGGGCTAAT TGGGAAGGGT ATTGGTTCCC (2) INFORMATION FOR SEQ ID NO: 2898: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2898: CAAATCCTGG AGATGAGCGT AACCAAAAAT AACGTTGAGA AAATGACCAC ACA (2) INFORMATION FOR SEQ ID NO: 2899: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2899: ATCGTGAACC TCTCATCCAA TCACTCATGT GAGTGAATTG GATGACCTGA A (2) INFORMATION FOR SEQ ID NO: 2900: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2900: AGCTTTCAGG GCTATATCAG ACCCACGCAT TCATCCACGT GAATGAAACA CG (2) INFORMATION FOR SEQ ID NO: 2901: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TYPE: nucleic acid (C) STRANDEDNESS: double

	GGTACTGACA GAGGGACAAG GTGGAAAGGn TGCCAATGTA AGAATACGGT	50
	(2) INFORMATION FOR SEQ ID NO: 2902:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2902:	
15	TGTCTGGAAT TCAGGTGAAT TGATGCGGAG ATTTAGGTGA TTAAGGAGTG TTGATTATGA	60
	AGATGACCAC TT	72
	(2) INFORMATION FOR SEQ ID NO: 2903:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	,,,	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2903:	
	CATGCCAAAG CAGTAGGCAA GCCGCTTAGC AAGCCAAAAA CGTCAGCCCA	
30		50
	(2) INFORMATION FOR SEQ ID NO: 2904:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2904:	
	TTGATGTTAC CTGATCGCAA TCTTGACCAC CTGGCAGGGT CTCATTGTTG GGTATCGA	58
45	(2) INFORMATION FOR SEQ ID NO: 2905:	
,•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 69 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	
	-	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2905:	
55		

	GCGGTCTAT	69
	(2) INFORMATION FOR SEQ ID NO: 2906:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2906:	
15	ATTCCATTAG GTTCAATTAA AAATTAACGG GGTTATGGTT CCGGTAATTC GGG	53
	(2) INFORMATION FOR SEQ ID NO: 2907:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 57 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2907:	
	AAAGCTAAGA AAGGAGGATT AGCTGGTAGT GGAGGAATGT TAAGTGAGGC TGGTGAT	57
30	(2) INFORMATION FOR SEQ ID NO: 2908:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 86 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2908:	
40	GGGAATGGCG CATGAACGTG CACATCAAAT GACACTGCAG GAAATCAATT AGCACGGATA	60
	TGGCATAAAG ACAATGGTAA AAGTGG	86
45	(2) INFORMATION FOR SEQ ID NO: 2909:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2909:	

	(2) INFORMATION FOR SEQ ID NO: 2910:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 109 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2910:	
	GAATTTGTTC CGAGGTATCG AGGACTACGC TTATAAGGTG CTTACAGATA CATTTAnCAT	6
15	TAATGGCGTG TGCTGCTGTA TGGGTTATAC TGTTCACAGG TTTAAGAGA	10
	(2) INFORMATION FOR SEQ ID NO: 2911:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2911:	
	TTGTCCCCAT AGGGAGAAAT AATTCCGCCT GGGCAAAACC AAATCCACGA GCTTCTAAGG	60
30	(2) INFORMATION FOR SEQ ID NO: 2912:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
<i></i>	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2912:	
40	TAGATGTATC CAGCTGACAT TAGCTATTGG TAAGGTAACG GCTTACCAGG CAACG	55
	(2) INFORMATION FOR SEQ ID NO: 2913:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 123 base pairs	
	(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2913:	
	GCCATGAGGC CCACCCATCC ATGTTTATGG ATGGTGGATT GGGGAATTAC TTGTTTCAAA	60
55		

	TCA	123
	(2) INFORMATION FOR SEQ ID NO: 2914:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 58 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2914:	
15	ATCCGTAATT CTGGCCTACC AAGGGTTTAG GCCAATGGGC CATTCTTTTA TTTAACCC	58
	(2) INFORMATION FOR SEQ ID NO: 2915:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2915:	
	TGGTGCGACA GTGGTAGGCT TTTTACGGTn TGCnGGCGAG AGTTCTGTAG	50
30	(2) INFORMATION FOR SEQ ID NO: 2916:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2916:	
40	CTGTTACGCT ATGCCCCCCA GTTGTATGTT GAGTGGAATC GTGTTTTTCG ACCTGCCTTT	60
	GCTTTTTT	68
45	(2) INFORMATION FOR SEQ ID NO: 2917:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid	
50	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2917:	

	GGAAA	65
	(2) INFORMATION FOR SEQ ID NO: 2918:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2918:	
15	AAATTCCAAT CCTGGGAATG GGATTCCATG GTmTTCGGAA AAATCCGCCA CCCCAAAAAA	60
	ATAAATGGGT CCCTTCCCTT GGAAATATTA CCTTTACCAG G	101
	(2) INFORMATION FOR SEQ ID NO: 2919:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2919:	
30	TAATAAATCC ATGACCACCG TCACGACGAT CTGACTGATA AACTAATGAC ATATGACTGG	60
	TGTACACACC GTATG	75
	(2) INFORMATION FOR SEQ ID NO: 2920:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2920:	
	CTTGGATTGA CCATCATTAG TTTTGGTCAC TCTAAGTTGT ACTGTCCGTT GTACAA	56
45	(2) INFORMATION FOR SEQ ID NO: 2921:	30
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	GCTCATTGCT TGTATATTAA TCCCTGAAAT TGACCGTGTA TATCCCGTCG ATCTATCTTG	60
	TCCTG	65
5	(2) INFORMATION FOR SEQ ID NO: 2922:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2922:	
	GCAATATTCT AATCTGTATG TTACAGCACA TGGATATAGC ACATCCGGGC	50
	(2) INFORMATION FOR SEQ ID NO: 2923:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 54 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2923:	
	TGTGATTTAA CAGGATTACA CAGGTGTACC AGCCGATAGT TGATTAAGCT TCTT	54
30	(2) INFORMATION FOR SEQ ID NO: 2924:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 50 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2924:	
	ATCCTGGGAA GTGCTGAAAA ACCACTnCAC TAAAGGCATA GGAnCCACAC	50
	(2) INFORMATION FOR SEQ ID NO: 2925:	50
<i>45</i> <i>50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2925:	
55		

	(2) INFORMATION FOR SEQ ID NO: 2926:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 62 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2926:	
	TTGGTCACAT TTATTCTCGT GTTGTGCCGT TCTTCTTCAG TACTAAAGAC AAGGTGATTC	60
15	GG	62
	(2) INFORMATION FOR SEQ ID NO: 2927:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 56 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2927:	
	CAAAAGGCTA TCCCACCTGA TTTGCAAAAG GAACTGGACT GCAAGGGAAG TCTCAG	56
30	(2) INFORMATION FOR SEQ ID NO: 2928:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid	
35	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2928:	
40	TGATCTTGCT ATTTAGTTGC GGCTTGGATT CATTTGGCAT GGTTAAGATT AAATTAGATG	60
	CTTCATTCAT TCAAGATTTC TTCATGTTAG CATTCTTTAC GACAATCGGT CTTGGTGCAT	120
45	CATTGAAATT ATTTAAATTA GGTGGCAAAG TCTTGCTATT ATACTTTATG TTTTGTGCTA	180
40	TCATTTCAGT CATTCAAAAC ATAGTTGGTG TATCACTAGC AAAAGTATTA AATATTAAAC	240
	CTTTGTTAGG ATTAACAGCA GGTTCCATGT CTATGGAAGG CGGTCATGGT AATGCTGCTG	300
50	CTTATGGTAA GACAATTCAA GATTTAGGTA TTGATTCGGC ACTGACAGCG GCTCTTGCAG	360
	CTGCAACTTT AGGTCTTGTA TTTGGAGGGC TATCGGTGGT	400
	(2) INFORMATION FOR SEQ ID NO: 2929:	

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2929:	
10	CTGAACCGAT GGCGCACTTT GCTACGCCAC CTACAGCAGA TCCCAnGGGG GGNGAAGCTT	60
	ATACTGAAGC TCTACGTTCA ACATTTTTCC ATTGGGGATT CCATGCTTGG GCTGTTTATG	120
	GTGTTGTTGC GTTACGTTTG GCATATTCGC AATTCCGTAA AGGTGAACCA GGTTTATTAT	180
15	CTAGAACTTT ACGTCCTCTT TTAGGTGATA AAGTAGAAGG TCCTATTGGG ATTTTTATTG	240
	ACGTTTTATC TGTATTTGCG ACAATCGTTG GGGTAGCCGT TTCGTTAGGT ATGGGTGCTC	300
20	TACAAATTAA TGGTGGTTTA CATTACTTGT TCAATGTTCC AAACAATACG TTTGTACAAG	360
	CGATTATCAT CATTGTTGTT ACTATCTTAT TTATAGCAAG	400
	(2) INFORMATION FOR SEQ ID NO: 2930:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2930:	
25	ATGTAGATCT ATATGATGAC TTTTTACAAG ATCCATCATC TGTACCAGAA GATTTAAAGT	60
35	CTTATTCAGC ACAATTAAGA ATGATGACTC AATTGTACCA GCTTTAAAAA GTACAAGTAG	120
	TCANAATAGC GACGGCACAA TTAAGCGTGT CATGCGTTTA ATTGATAATA TTCGCCAATA	180
40	CGGGCATCTT AAAGCCGATA TTTATCCTGT AAATCCTCCA AAAAGGAAAC ATGTACCTAA	240
	ATTAGAGATT GAAGACTTTG ATTTAGATCA ACAGACTTTG GAAGGTATAT CAGCAGGAAT	300
	TGTTTCAGAT CACTTTGCCG ACATTTATGA TAATGCCTAT GANGCAATTT TAAGAATGGA	360
45	AAAACGTTAC AAAGGnCCAT TGCATTTGAG TATACCnTAT	400
	(2) INFORMATION FOR SEQ ID NO: 2931:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GGTTATACAA TCTAGAATCG CATGATAATT TAATGCTACA AATCGATAGT ACAATATATC	60
	TACCGTGAAT AACTGTGCAA ATAGTGACGT TGTAGCCGCC ATACGCATTT CATTTTCATC	120
5	AGTTCTGCCA TAAATCAATG CATAGTCTGC AATTTGAGCC ACTGGATTAT TAGCTGTACT	180
	AGATATAGTT ATGATGGGAA TACTGTAATG TGTGGCCACC TGTGCAATTG ACTGCAATTC	240
10	ACTATGGACT ACCTTGGATT CGTCACAAAA ATCATGCAAT CTCTATCATC ATGCGTCGCA	300
,,	AATGTTGACA CAAGTGAAAT GCGTTTCCAT GTAATAACCT GACATTTGAA GCCATACGAG	360
	ATAACTTTGG AAAAAGATCA CCAATAGnCC AACTCGATGG	400
15	(2) INFORMATION FOR SEQ ID NO: 2932:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2932:	
25	CTTTCAGTAG CAGCTACAAT TGTCTTTAAC ATTTAAGTTT AAAGCTGTAT GTGTCAACCG	60
	CAAATACCGA TAGCCATTCA CTAATGAAGT TTCAACTAAT TTAGTACGAT CTGACAATAA	120
30	CTTTTTGTAA TCTTGGGCTG CTTCAGCTGA TACAGCAATA TTTCTCATTG TTTTAACAGC	180
	TTCTTCAGGA TATAAACCAG CAGCAGTTTC ACCAGATAAC ATTACTGCAT CTGTACCATC	240
	ATAGATTGCG TTGGCAACGT CACTAGCTTC TGCACGTGTA GCACGTGGGT TACGTTGCAT	300
35	AGAATCTAAC ATTTGTGTAG CTGTAATAAC TGGTTTACCT AATTTGTNAC ATTGTCTGAT	360
	TAAATCTTTT TGAACCATTG GGACTTTnTC AG	392
	(2) INFORMATION FOR SEQ ID NO: 2933:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2933:	
50	TGACTATGGT ATCGCATGTT GTGTATCAGC GATGACAATT GGTAAACAAA TGCAATTCTT	60
	CGGTGCACGT GCGAACTTAG CTAAAACATT ACTTTACGCT ATCAATGGTG GTAAAGATGA	120
	AAAATCTGGT GCACAAGTTG GTCCAAACTT CGAAGTATTA ACAGCGAGTA TTAGAATATG	180
<i>55</i>		

	ATTAAATGTT ATTCACTACA TGCACGATAA ATACAGCTAT GAACGTAATT GAAATGGCAT	30
	TACATGATAC ANAAATTGTA CGTACAATGG CAACAGGTAT CGCTGGTTTA TCAGTAGCAG	36
5.	CGGACTCATT ATCTGCATTn AATATGCACA AGTTnAAACC	40
	(2) INFORMATION FOR SEQ ID NO: 2934:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2934:	
	AAAATATGCC ATGACTGGCA TGACAAGAAT TGGACGTTAG AAGCATCTCA AACTGGTACG	60
20	TTCAGAGGTC GTAACTnTAA CTTCAATGGT GAAGGATTCT CACGTCAAAC ATTTAAAGTA	120
	AATGCCGTTA GTCAAAAAGA CTACGACAAA TGGGTGAAAG AAGTTAAAGG TAAGAnAACG	180
	TTAGATCAAG ATACATTTGA TAAACAATTA TTACCAAGCA CACCTAATAA AGCTTTAGAA	240
25	TTTAATGGTA CACATATGGC GTTTGTTGAT CCAGCAGCCG ATCCAGAATA CATCTTCTAT	300
	GCATATAAAC GTTTCAATTT CGGATTGAAG GTCCCAAACT TCACTAGTGA GGAAAATATG	360
30	TTTAAGGTGT ATCAGACAAA CCCTTAATAC CTGCTCGTGA	400
	(2) INFORMATION FOR SEQ ID NO: 2935:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2935:	
	ATGGAGTATA CAACTACTTC GGCATTGGCG CTTACGACAA CAATCCTAAC TACGCAATGA	60
45	CGTTTGCAAG GAATAAAGGT TIGACATCTC CAGCAAAAGC AATCATGGGC GGTGCTAGCT	120
	TCGTAAGAAA GGATTACATC AATAAAGGTC AAAACACATT GTACCGAATT AGATGGAATC	180
	CTAAGAATCC AGCTACCCAC CAATACGCTA CTGCTATAGA GGGTGCCAAC ATCAAGCAAG	240
50	TACAATCGCT AAGTTATATA AACAAATCGG CTTAAAAGGT ATCTACTTCA CAAGGGGTAA	300
	ATATAAATAA AGAGGTGTGT AAATGTACCA AATAAAAGAT GTGAAACGAG AATTAAAAAT	360
	GATGGTGTTG ACTTAGGTGA CATTTGGCTG TCGTTTTACA	400

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2936:	
	AAACAATACA AACAAAAGAA AGTCAACCAA GGATGGATTC CTATTTTAAT CCTTGGTTGA	. 60
	CTCTTATTTT ATTTAAATTG TAGAACCTAG AAAATAAAGT TTAATTAAAA GCACCAATCA	120
15	TTTCTACTTT GAAATCTAAG GTTTCTAAAA TAGCAATGAC TTTCTTTATA TCGGTTGTAA	180
	TTGCAGAATC AGCCTGAACG AAAAATCGAT ACATACCTAA TTGTGTTTTT AAAGGACGAG	240
	ACTCAATCCA GGGTAAATTA ATATTAAACA AAGCAAATGT ATTAAGCACA CTTGCTAACA	300
20	ACCCGGGTTA TCATGCATTG GTGTAATTAA AAACATCAAT GGTGTCGCAT TTTGATCAAA	360
	TGCTGCTGAT TTTTTATAAC TAAAAACGTG TCAGGTATGT	400
25	(2) INFORMATION FOR SEQ ID NO: 2937: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2937:	60
35	TTATTATCTT GATACATTGA GTGTATATTC CATTTTCCAT GAGGCGTTAA ATAACGCATA	60
	CCAAAGCATC TGTACCACCT TTAATTTTCT TATCTCTATT CCCAAATACC ATTGGCGGCA	120
40	ATGTCGGTTT ATATACTGGT AAGCTCTCCC CAAATTGTTG GAAAACTTCG TGATCCACAT	
	AATAACTTTG GACGTCCTGT TAATGTTCTA AAAGGTACTA GACGTTCTAT ATTCGTTGTA	240
	AATGGTGGAA TATCGTCGAC CTTGTTTATT TGAACCGGGG AATACTGCTG TCGGTATTAC	300
45	TTCTCGTGGT TGTGGAAGTT ATATTTAAAA ACGGAAATTT TCTCAGCAGC GnTTTCGTTA	360
-	GGAAATATCT TTTAACGGGC ATTCCAGTTT GTTCnTCGGG	400
	(2) INFORMATION FOR SEQ ID NO: 2938:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2938:	
	TATCTCTTAA AGCCGGTGAT GGTGGTAATG GTATTACCGC ATACAGAAGA GAAAAATATG	60
5	TACCATTIGG TGGACCAGCT GGCGGTGACG GTGGTAAAGG TGCTTCAGTC GTATTTGAAG	120
	TGGATGAAGG TTTAAGAACG TTATTAGATT TTAGATATCA ACGTCATTTT AAAGCAAGCA	180
10	AAGGTGAAAA TGGCCAAAGT AGTAATATGC ATGGTAAAAA TGCGGAAGAT TTAGTATTAA	240
,0	AAGTTCCACC TGGTACAATT ATTAAAAATG TTGAAACAGA CGAGGTTTAG CAGATCTTGT	300
	TGAAGATGGT CAAAGAGCTG TAGTAGCGAG GGCGGTCGAG GTGGCChAGG TAATTCACGT	360
15	TTTGCAACAC CTAGGAAACC CTGGCACCTG GACTTCATGG	400
	(2) INFORMATION FOR SEQ ID NO: 2939:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2939:	
	CTAACCTCGA GTTCGTATTA TGCCCACCAC ATGTCTGCTG GCTTGTCGTA AATATTAACA	60
30	GATTTCAAAG TTTGACAAGC TTTTTGGAAA CCTTCTTCTA CTGACATAAT AGGATCTTCA	120
	TGTTCAATAC TTAATACATA ATCATATCCA TTAATAATAA GTTGACTTAT GATATCTGCC	180
	CATACATATG GACTATGTCC TAAGCCAACT GTACGGAATG TCATGCTCTT GTCGCAACGT	240
35	TACCATATGG TTGCATATCA GTTAGACCAT ACATATTTAC ATTTTCTTGG ATTAATATAC	300
	GTATCTTTAG CATGGAAGTG ATGAATTGCA TTTGCTTGGn CTAATATGCG AATCGCAGCC	360
	AATTGGGTCA ATANCNTGGC CACC	384
40	(2) INFORMATION FOR SEQ ID NO: 2940:	
45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2940:	
	TTTCATATTT TTCTATTAAT GATTCATATT GTAGGGTGAT TGCAATGTCA TCTAAGCCAT	60
	TTACAAGTTT ATTCTTCCAA GTTTCATCAA TTTCAAAATG GAAACGCTTG TCTGGTGATG	120

	CACTITITIC TAAAACGATA GGCAACATCG CATTITIAGT GCAATTCATA TAAAATATGT	240
	CACTGAAACT TCCTGCAATA ATAATATGAA AACCATAGTC CTTAAGAGCC CAAGCAGCAT	300
5	GTTCACGACT TGAACCACAT CCAAAATTAT CTCCAGTnAT TAAATnGGAG GCCCCTTTAT	360
	ATTGTGGTTT GTTAGGGTTG AATCAGGGTT TnTnGGAACC	400
10	(2) INFORMATION FOR SEQ ID NO: 2941:	
15	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 409 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2941:	
20	ATCATAATCC ATCGTGCGTC CAAGAAGTAC TTGATTATTT AAAGTTTGTA TTGTGAATCC	60
	TGTGCACATT GTTCTCACTC CTCTGTACCT TCATTTACTT TAATCACTTT CAAATAAAGC	120
0.5	TGTTTCACTT AAACATACTA TAAAAAATCA ATTATACAAG CAATTAATTG ATATTCATTC	180
25	TCAATAACTG TGGTATGATA TGTAAGGAAA TCATGACTTA TGTGTGAGTG AACGATCATC	240
	TATACATCCG TTCACTTCAT CTCATGACTT TCTATATTTA ATTTTTACAA GGGAGTGACA	300
30	TCTGTGAATA ACACACAATC TTCACCACGC GTAATATLAT TATTGCGATT ATGTTGTCTG	360
	CATAACATAT GGTTGTTGCA CAATCATTAT TANTATAGGA CCTCCGTTG	409
	(2) INFORMATION FOR SEQ ID NO: 2942:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2942:	
40	ATGAAGTGTC AAAAGGTTTA AAAACATCTG AAAGGGGTTC GCACATGTTT TAAACTTTAA	60
45	AAATAAAGGT GGATGTCCAA AATGTCGACC AGCAATCAAC TATTATTTAA ACATGGTTTA	120
	TCCACATGAT CATGAAGATG AAAGAGAATC AAGATTTGCT AACGAACGTT ACCATGCGAA	180
50	TATTCAAAAT GATGGTACAT TTTCTGTTAT ACCTCAAATG CGTGGGGGTG TTACAGATGC	240
	AGACCAACTG ATTCGTCTAG GAGAAGTGGC TAAGAAATAT CATGTGCCAC TAGTTAAAGT	300
	GACAGGTTCA CAACGTGTTG GTTTGTATGG AGTTAAAAAA GAAGATTACC AAATATATGG	360

(2) INFORMATION FOR SEQ ID NO: 2943:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2943:	
	ACCTGGAAAT GTATGTGCCA TCTCTTTAAG CCAATCAGTA TCTTGAATAC CTTTCGTTCC	60
15	AACTATGCAA TAATTAATCC CTGCGGCAAA GTAGTCCATG ATTGTGACTT CGTACGAATG	120
	CCACCACCTA CTTCAATATC TTTGGTTGTT AATCTCCTCA ATGACTTAAT ATAATCAAAC	180
	TCTCGGGCAT GCTGTGCCTT AGCACTCATC AAGTCGACGA TATGAATACG ATTCACACAT	240
20	TCAAATTGAC TATAGTAAGC AATACTTTCT TCAGCCGAGC GTGGACATTT TTTCTTCACT	300
	ATCATATTA CCCTCTGTTA ACCTCACACT TGTTGACCCA ATCAAATCAA	360
05	ATAATTCAAT CATTTMATAA ATCCCCCTTG TATTGGCCTG	400
25	(2) INFORMATION FOR SEQ ID NO: 2944:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2944:	
	AACAAAAGGG GTCTATCGTC AATCGTTTCT TGAATAGTGT TGAAAAAAATC GGAAATAAAT	60
	TGCCAGATCC TAGCGTCTTA TTCTTTTTAA TGTGTGTGGG CTTAGCCATT ATGACATGGG	120
40	TTATCTCATT ATTTAATGTA TCTGTTAAGC ATCCAGGTAC GCATCAAACC ATTTATATTA	180
	AAAATATAAT TAGCCATGAT GGATTTACGA TGATAATGAA TGATACGATT AAAAATTTCT	240
45	CAGAGTTCCC AGCATTAGGC TTAGTACTAG CAGTGATGAT TGGTATTGGT GTTGCAGAGA	300
	AAACAGGATA CTTCGATAAG TTAATGATTT CTGTTGTGAA TCGCGCACCA CGTTTCTAAA	360
	TTTACCGCTA TAATATTAAT GGGAATTTTA GGGAGTCAGA	400
50	(2) INFORMATION FOR SEQ ID NO: 2945:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2945:	
5	ATTTTACAAG TAACGGTGCA TCACCAGATT CTAATTTAAT GTCATGCTCA GCAGCATTTT	60
	GATAACCCAA CTTTTCAAAG TAGTCAAAAC AATGGTCTAC AACAACCGTA CTATACTCTT	120
	GTGCTTTGGC CGCTCTTCTA CTGCTTGAAC CAAGCCACGA CCTAATTTTT GTCCACGTAA	180
10	TTCAGGATGA ACTGATAAAG AGGCAATCGC CAAACCATAA TACGTCTTAT CATCACTATT	240
	AATTTCTACT TCAATTAATA AAACGTGTCC AACGACATCG TTATTTTCAT TTTTCGCTAT	300
	TACTTCTAAT TCAAAATTAT AGCAAGGAGA TTTTCTTAAA TGGTTTACTT TCGGCACGTG	360
15	CCTGGCCAAC TCGTTTTCAG GATTATCATC CAAACTTTCC	400
	(2) INFORMATION FOR SEQ ID NO: 2946:	
?0	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
?5		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2946:	
	GGAAATAATT ACTTGAGCTA GATAAGTTGA CAGCTGTGCA ATTATTTTCA GCAGCTAATT	60
30	GTAAAATTCG CTCTAATCTT GCTGATGAAT GTTCAGGCCC TTGACCCTCA TATGCATGAG	120
	GTAAGAATAA TGTTAATCCT GAACGTTCTC CCCATTTTGA GCGAGAACTG AATAAGAAGT	180
_	TGTCAAAAAT CATTTGTGAC ATATTTGGCA AAATCACCAT ATTGTGCTTC CCAAATATTG	240
35	AAGCTTTTT TGTTTTCCAC ATTATAGCCG TATTCAAAAC CAACTACTGC TGCTTCTGAA	300
	GCGGAGAATT GTGTATATCA AATGTCGCTT TTTGANCAGG AGCATGATGT AAAGGTGTAT	360
10	ATGTTmCACC nGTTTGCTCA TCATGTmACA CGGCAGCCGT	400
	(2) INFORMATION FOR SEQ ID NO: 2947:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2947:	
	AAGTGGCATA AAAAAATCAC ATGACGATAC ATTGTCGTCA TATGACTTTA AATATTATTC	60

	TTCAATTGTG TCACCGATTT TTAATACATC TTCCACTTTT TCAATTCTAT TTTTTGAAAT	180
5	TTGTGAAATG TGAAGCAACG CATCTTTACC TGGGAATAGG CCTACAAACG CACCGTATTT	240
	TTCAATACGT TTAACAGTGG CTTGGATAAG TTTGACCTAC TTCCGCTTCA CGTGTAATTT	300
	CCTCAATGAT TTCACGAGCA CGATTTATCA TAGCTTGATC AACAGCACCC ATAAAGATAG	360
10	TACCATCCTG GnCCATATCn AATTTAACAC CnGGnTCCTC	400
	(2) INFORMATION FOR SEQ ID NO: 2948:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2948:	
	TTTTTCAAGT TTTGCTGAAG GCTTTACACA AGGCTATTTA ACAATGGATG CCATTGCAGC	60
25	AATTGCTTTT TCAATGATTG TTGTTAATGC AGTAAAACTA ACAGGCATTA CTAAAACAAA	120
	TCAAATATTC AAACAAACTT TGACTGCTGG TTTAATTGCA GCCGTAGCTT TAATTTTCAT	180
	ATATATTCA TTAGGTTATA TTGGTAATCA TATGCCAGTA AGTGACATGA CGTTAGATCA	240
30	ATTGAAATCC AAAGATCGAA ACATTGGGAC ATATTTATTA ACGACAATGG CTTCAACAGG	300
	ATTTGGTCAT CCGGAAAATA TTATTGGGCA TCATTGTGGC GCTGGCATGC TAACTACAGC	360
	ATGCGGGCTA TGGTGCAGTT CCTGAATATT CCATAGATCG	400
35	(2) INFORMATION FOR SEQ ID NO: 2949:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2949:	
	CATGGCTTCA GATTGTTTGA ATTGAATGGA CAATTTTGGN TTCTGTCCAA AATTCTTACA	60
	AAATCTTCTA CCGATAAACT ATCAAGTTCA ACTCTAATCG GAAAAACGAC CTTGCAATTC	120
50	TGGTATCAAG TCACTCGGCT TAGATACATG GNAAGCTCCA GCACCTATAA ACAGCATATG	180
	TTCAGTATTC ACAGTACCAT ATTTGGTTTG AATAACGCTA CCTTCAAGTA TAGGTAAAAT	240
	ATCTCTTTGA ACACCTTGTC TTGAGACATC TTGACCACTA TTATGATTAT TCGTCGCAAC	300

	GTTAGCGCTT TCTTGATCAR TTAGTTCATC CGCATAACTA	400
	(2) INFORMATION FOR SEQ ID NO: 2950:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	107 00000007 0000000	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2950:	
15	TTGACTTTGT AACTAAACTA CTCACTCGAC CGACTCAACT GTTTAAATGT TTCAGATGGT	60
	TTAACTCTAA ATACTACGTA TAAATCACCA GCAGGTCCTC CATTCACGCC TGGAGAGCCT	120
	TCACCAGCTA ATCTAATTTG TTGTTCATTG TCGACACCTT CAGGTACTTT CACTTCTAAT	180
20	TTAACTGTTT TATTTTCAGT ACCTTTTCCG TGACATGTTG GACAAGCTTC TTCAAATTCT	240
	TGACCACTTC CATTACATTT AGGACAAACT TGTTCAGTAC GAACTCTACC TAAAATTGTG	300
	TTTTGTTCTA CAGCTACATG ACCAGCGCCA TTACAGTAAC TACAAGTCTT TTTACTTGTT	360
25	CCAGGCTTTG CACCATCACC ATGACATGTT TCGCATGTNA	400
	(2) INFORMATION FOR SEQ ID NO: 2951:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2951:	
	CAATGATTTT AAAAGATGCA ATAAAACCAA ACTTAGTACA ATCAATTGAA GGGACACCTG	60
40	CATTAGTTCA TGGTGGACCA TTTGCGAATA TCGCACACGG TTGTAACTCA ATTTTAGCAA	120
	CTGAAACAGC ACGTGATTTA GCTGATATCG TTGTAACGGA AGCTGGATTT GGTTCAGACT	180
	TAGGCGCTGA AAAATTCATG GACATTAAAG CGCGTGAACA GGATTTGATC CGGCAGCTGT	240
45	CGTTGTTGTT GCGACAATTC GTGCGTTAAA AATGCATGGT GGTGTAGCGA AAGATAATTT	300
	AAAAGAAGAA AATGTAGAAG CAGTAAAAAG CAGGAATGGT TAATTTAGAG CGTCATGTTA	360
	ATAATATTAA CAATTCCGTG TAGANCCGGT TGTTGCCATA	400
50	(2) INFORMATION FOR SEQ ID NO: 2952:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	
55	(A) DENGIN. 400 Dase patts	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2952:	
	TCAAGTAGCA AAAGAAACAG GTGCTTCAGT TATCGGTATT GATATTGGTC CACAAGCCGT	60
10	TGACCTAGGG CGCAGAATCG TTAACGTCTT AGCACCAAAT GAAGATATAA CAATTACGGA	120
	TCAAAAGGTA TCTGAACTTA AAGATATCAA AGATGTGACG CATATCATAT	180
	ATTCCTTTAA AGTACAGCAT TTTAGAAGAA TTATATGATT TAACAAATGA AAATGTCCGT	240
15	AGTTGCAATG CGCTTTGGTG ATGGCATCAA AGCAATATTT AATTATCCGA AGAAACAGCG	300
	GAAGATAAGT GGGCCATGTG TGAATAAACA TATGAGACCA CAGCAAATTT TTGATATAGC	360
	ACTINATHAA ANAGCCGGCT ATAAAGTHGG TATTACGGAT	400
20	(2) INFORMATION FOR SEQ ID NO: 2953:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2953:	
	CGCAATTCAC AATAACATTA AATAATTTTT GGTCTCATAT TTTCAAAAAA CATACTGTTA	60
	TTATCCCATG GGnTTAAAAA TATCATTAGT ATATAAACGA AACACTTTAC GATAAATGAT	120
35	ATCTGCAAGC CAAGCTGTTA CAAATGGTAC AACAAAGAAC GCTACTACAA TTAGTAAGAC	180
	ACTCAACCAA GCAGAATCAA CCTCCATAAA TTTAAATGCA TTAATCGGTC CTACCATTCC	240
	TATAAAACCA AATCCAGCTG ACTCTTTCGT TCCATGAATA CCTACTAATG CTGATACCAA	300
40	ACCTGATACA ATGGCTGTCG TANGGGCGGG GNGCATAAGA ATTGGATATT TCACCATATT	360
	AGGTATCATC ATTTTAACGC CTCCAAAGAA GACCGGATAA	400
45	(2) INFORMATION FOR SEQ ID NO: 2954:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(D) TOPOLOGY: linear	

2381

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2954:

	AACACTITAA TGGAGATTTA GCAGGCACTG TTACACTGAC AGCAGGTTTA GGTGGTATGG	120
	GTGGTGCGCA ACCGTTAGCA ATTACTATGA ATCATGGGGT AGCAATTTGC GTGGATGTTG	180
5	ATGAAACACG TGTTGATAAG CGAATTGATA CGAAATACTG TGATGTTAAA ACAGCTGATT	240
	TAGATGAAGC ATTAAAATTA GCAGAAGAGG CGAAAGAACG TGGGAGAAGG ATTATCAATC	300
10	GGGTTAATTT GGAAATGCTG TAGACATCCC ATCCAAGCGG ATTCTAGGAA AAAGGGTTTT	360
	AAAATTGGAC ATTAATTACT GGnCCCAAAC CAAGTGCCCC	400
	(2) INFORMATION FOR SEQ ID NO: 2955:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2955:	
	TTCAGAATAC GAGCAATGTC AGTTGCAGTG TTTAATAAAT TTTGTTCGCT ATTTTGTAGG	60
25	CATCTTCTAA AGTGCTAGGT GAAGAGATTA TAGAATAGGC ACTATCAATA CCGAAATCGT	120
	AAACATGTTG ATAATTTTCG CCTAGACTGC CACAAATCGC GATGACAGGA ATATGATATT	180
30	GTTTTGCAGC TAACGCAACG CCTACGGGTG TTTTACCAAA GATGGTCTGA TAATCCATGC	240
	GTCCTTCTCC AGTAATAACG AGGTCTGCAT CTTTAATTCT TTGATGAAAA TCTGTAATGT	300
	CAAAGACGAC ATCAATACCT TTTGTTAAAG TTGTCTCACA AAACGnTAAT AATGCTGCGG	360
35	CCATACCGnC AGTGCACCAG AACCTGGTAT TTGGTTnACG	400
	(2) INFORMATION FOR SEQ ID NO: 2956:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2956:	
	AATACGTCCT TTATATAATG TTAATAACCA GTTAAACAAT TTCACACCAG TTGGAATACC	60
	AATCAGCATT GTTGAAATTG AGAAGAATGA GTTGATTAAC GCACCATTAC CCATTGTGAA	120
50	GAAATGGTGA ACCCAAACTA AGAAACTAAG GAACGCGATA CCGGCAGTTG CCCATACCAT	180
	ACTITGATGI CCGAATAAAC GCTTACGAGC GAATGICGGG GATAATIICI GAGTAAATAC	240

	CCAAAGCATT GGGCATACCG CCATGTGGCA CTGTGGAAGA ATGCTGTGTC CAATATTCCG	360
	nTCATTGGTn CATTAATGGC TAACGCTAAC GGTTTAAAGG	400
5	(2) INFORMATION FOR SEQ ID NO: 2957:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2957:	
	TAGTAATTAA TACGATGTCA GCACCTACTG ATTTTGCTTT GTCTGCTAAT AATCTTAAAT	60
	GTTCCGTGGA CCTGAACCAG AGATAATTAC AAATACATCA TTCGACTTAA TCGCAGGTGT	120
20	CGTTGATTCT CCAACAACAT GTGCCTGTTT GCCGAGCTGA TTTAAGCGCA TTGCAAAACT	180
	ATTCGCCACG AATCCTGGAA CGTCCTTTGC CAGCTACAAA TATATGTTCA GCATGTAGTA	240
25	TTTTGGGATG CAAAAGTTGG AAAACTCCAT CCGnTTCAAC ATGTGACAAA GTCATCTTTG	300
25	AATTCATCTA GANTTAATTG ATAGTCACTA ANTTTAGCCA TATTACTTAC CTTCGGTTGC	360
	CAGCGCGACC ATTGTTTCGC AGCTTCTTAC TGGG	394
30	(2) INFORMATION FOR SEQ ID NO: 2958:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2958:	
40	AATTATTCTA CCTATAATTA AAAATGCTGG CAAAGGTGTA ATGATGATGA GTAATGAACC	60
	TACAACATTT AATATCAATC CTACATAAGT AATTTTGACG CGACCAAATT TATCAGCAAC	120
	ATCACCAGCA CCTACGATAA ACAAACCAGC AAATAAGGCA GATAAGCTAA CAGCGATTAT	180
45	TTATCGTTCC AACGTCACTA CTATATGTTG ATTGTAATGG GACAACAAGA TTAACAAGTG	240
	ACTGCGCGAA TAGCCAAAAG GTAATAACCC CTAAAACGAT ACCCAAAnGC AATCGGTTGT	300
50	TCACCTCTTA AATTGTTTTG ATGTGTCCnT GGATTAGGAT AAGCCTCCTA TGTTTAGGAA	360
	AAACAATTTT TAATATGGTA TATTAAGGAN ACATTTCCTT	400
	(2) INFORMATION FOR SEQ ID NO: 2959:	

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	÷
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2959:	
10	CTTCTTTCTC AACATCAAAG AACATATGGT TTTGTTTCAA ATATTCTTTT ACTAGCGCGA	60
	TATGTTCGTC TGATCTACCA GTTAACTTCA TATATTTAAG AGATTCATCA TCAACTGGGA	120
	AGAATCCGCA AGTTGCTCCA TACTCTGGTG CCATGTTTGC AATTGTAGCA CGGTCTGCTA	180
15	GTGGTAAATG TTGTACACCT GGACCAAAGA ACTCCACAAA TTTACCAACA ACACCTTTTT	240
	TACGTGGCTC TTGAGTTACT CTTAACGCTA AATCAGTTGC TGTTGCGCCT TGTGGTAATG	300
	AATTTACTAG TCGTACACCA TTAACCTCTG GAATTGGGGA AATAGGAGGG TTGTCCAGGC	360
20	ATTCCAGCTT CAGTTTCAAT ACCACCAACA nCCCTCCTAG	400
	(2) INFORMATION FOR SEQ ID NO: 2960:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2960:	
	ACGTCAAATG TAATCACAAT CGGAAAGTAT CGTGACAATG CATATATAAC AGGGAGGGTT	60
35	TAAATATGAG TTACTAAGGG GATTTTTAGA TTTAGGTGCA CTGTTTATTT TACCGGTTGT	120
	CATATTCTTG CTTGGCCTAT TCTTTAGGCA GAAAATTGGA GCGGCATTTA GGTCTGGTTT	180
	AACAATAGGT GTGGCTTTTG TAGGGATTTT CTTAGTCATC GATTTATTAG TTAAAAATTT	240
40	AGGGCCAGCA GCACAAGCGA TGGTTAAAAA TTTAGGCGTC AnTCTGAATG TGGATTGATG	300
	TAGGTTGGCC AGCAACATCA TCTATCGCTT GGGCATCATC TGTnCGCnCC ATTTTATTAT	360
45	TCCACTCGGG ATTCATAGTT	380
	(2) INFORMATION FOR SEQ ID NO: 2961:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 358 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	GGCCATTGGT CGAACTTACG AAGAATCATT GTTAAAAGCA ATTCGATCAC TTGAGTATGG	60
5	TGTGCATCAC TTAGGATTAC CAAATGGTGA AAGCNTCGAT CTTGATTATA TTAAAGAACG	120
	TATTTCACAC CAAGATGATG GACGATTATT TTTCATCGGC GAACAATTAG AAGAGGCACA	180
	ACAGTAGAAG AAATTCATAA TATGACTCAG ATTGATTACT TCTTCTTACA CAAGTTCCAA	240
10	AACATTATTG ATATTGAGCA TCAATTAAAA GAGCATCAAG GTGATTTAGA ATATCTTAAA	300
	TATGCHAAAG ATTATGGHTT TAGTGGTAAA ACAATAGCGC ATCGCCTTAA TATGACGG	358
	(2) INFORMATION FOR SEQ ID NO: 2962:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2962:	
•	TTTGGGCATC ATTAGGAAAA TTCTTTGAGC AACTTTAGTG TCTACTGGGT AATACAATTT	60
25	TATCACCATG TTTTTCTAAT AAATCTTTTG CGAATCGATT TTATCTTCTT CTAATAATGA	120
	AATACCAATT TCTTTACCTT GCGCTTTTAA GAAAGTATAA GCCATACCTC CGCCGATGAT	180
20	AATTTTATCA GCTATGTTAA CTAAGTTTTT GATGACATTA ATTTTGTCAG ATACTTTTGn	240
30	GnCACCTAAA ATAGCAACAA CTGGTTTATG TGGATCGTTA ACTACGCCGC CAATAAACTT	300
	AATTTCTTTA TCCATTAAGA ATCCAGCTGC AGTTTCTAAA TGTGTAGAAA TACCAACATT	360
35	ATTn	364
	(2) INFORMATION FOR SEQ ID NO: 2963:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 372 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2963:	
	GTTGATTTCT TGAAAGATAA TAAAAAATTC AAAGAAATGG GATCTAGGAT TCCTAAAGGT	60
50	GTCTTACTTG TTGGACCTCC AGGTACTGTT AGAAACATTA CTTGCTAGAG CGGTTGCAGG	120
	TGAAGCTGGC GCACCATTCT TCTCTATTAG TGGTTCAGAC TTTGTAGAGA TGTTTGTTGG	180
	TGTTGGTGCG AGCCGTGTTC GTGACTTATT CGATAATGCT AAGAAAACG CGCCTTGTAT	240

	TCATGATGAA CGTGGAACAA ACCCTAAACC ADTATTAGTT GAANGGATGG TTTNCGGTGG	360
	AAAATGAAGG TG	372
5	(2) INFORMATION FOR SEQ ID NO: 2964:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2964:	
10	TTAGCAGAAC GCCCACAAAA CCTATCTCTT GCTGTAAAAG AATTTGTGAA nCTGCTGGCT	60
	TAAAACGTGT TGGCATAATT GCAGCTTTAG GAGCTACAGT TATGTTAGGT TTAAGTACAA	120
20	TTAAAAAATT ATGCCGTAAA TAGAGCAAGA CATAAACAAT AATTTAGGAG TCTGGAACAA	180
	TAATCAATGT TCTAGGCTCC TAAATGTTAT ATTGGCAGTT CTGAAACATT TATAAATCTT	240
	TGATTATGAA CTCACAACAG TGCTCTATGC TTTTATAGAT TTTAATAAAT TAGCCATTTC	300
25	AATTGCACTT ACTGCTGCTT CACACCCTTT ATTGCCAGCT TTCGNACCTG CNCCTTCCAC	360
	AGCTGGGCAA TACTGCCAGC CG	382
	(2) INFORMATION FOR SEQ ID NO: 2965:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2965:	
40	GGGAATCATA CAATCATTAC CAATAAACAT GTTACTTATC ACATGAAAGT CGGTGATGAA	60
40	ATCAAAGCAC ATCCTAATGG TTTTTATAAT AACGGTGGTG GACTTTATAA AGTTACTAAG	120
	ATTGTAGATT ATCCTGGTAA AGAAGATATT GCGGTCGTAC AAGTTGAAGA AAAATCAACG	180
45	CAACCAAAAG GTAGAAAATT CAAAGATTTC ACTAGCAAAT TTAATATAGC ATCAGAAGCT	240
	AAAGAAAATG AACCTATATC AGTCATTGGT TATCCAAATC CTAATGGAAA TAAACTACAA	300
	ATGTATGAAT CAACTGGTAA AGTACTATCA GTGAATGGAA ATATAGTGAC ATCTGATGCG	360
50	GTTGTCCAAC CTGGCAGCTC TGGTTCACCT ATATTAAATA	400
	(2) INFORMATION FOR SEO ID NO: 2966:	

· <i>5</i>	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2966:	
10	TGGGGATTCA CAGGCTAATA CATTTGACTT TATTAGCTGG TGGCGGTAAC GGCGCTGAAC	60
	TTTAAATGCG ATTCAAAGTG CTGCAATTAT AAGTGCATTC CCATTCTCCT TTGTCGTCAT	120
	ACTCATGATG GTAAGTTTCT ACAAGGATGC GAACCAGGAA CGTAAATTCC TAGGTTTAAC	180
15	ATTGACTCCG AATAAACATC GCTTACAAGA ATATATCAAG AGTCAACAAG AAGTTATGAA	240
	TCTGACATTC TTGAAAAGCG TCAGTCACGT GAAATATAGA GAAAAAAGAT AACTAATAAA	300
	GTTTAGTTAA GTATTTTAAT AACAAGTAGT ATGTCATTCT AGTAGCTAGA ACGGTNATAC	360
20	TACTTGTnTG TTTTTGTGGA AATTGAGTAT TTCAAAGGTT	400
	(2) INFORMATION FOR SEQ ID NO: 2967:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2967:	
	ACGAGGAATT AGTGAAGTAC AATATTATCG GTGGTTTTGA TTTAGGTGTT GTTTCAGACG	60
35	ACTITAAAAA TCACATGITA ATAGCIGIAA CIGAATIAAG AACAAAAGAI GAAAICGAIA	120
00	CATTIGTAGA AAAGGCTGGT GAGTTAAATG ACTAGTAAAT CAAGTCCATT AATTITTGAA	180
	AGATCTCGTG AAGGCAGATA TGCATATTCA TTACCAAAAA GTGATATTAA AACAAATTCT	240
40	GTTGAGTCAT TGTTAGATGA TAAATTTATT CGTAAAAACA AAGCGGAGTT TCCTGNAGTT	300
	GCTGGAACTA GACTTmGTAC GTCATTAATC CTGGACCTTT CCAAATAAAA AATTCCGGnG	360
	GTAGACACCG GGTTTAACCC ATGGGGT	387
45	(2) INFORMATION FOR SEQ ID NO: 2968:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 806 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	AACAAGTGCA AGTGAGTCAA CATCAGAAAG TGCGTCAACA TCACTCAGTG ACTCAACAAG	60
5	TACAAGTAAC TCAGGATCAG CAAGTACGTC AACATCGCTC AGTAACTCAG CAAGCGCAAG	120
5	TGAATCCGAT TTGTCGTCAA CATCTTTAAG TGATTCAACA TCTGCGTCAA TGCAAAGCAG	180
	TGAATCCGAT TCACAAAGCA CATCAGCATC ATTAAGTGAT TCGCTAAGTA CATCAACTTC	240
10	AAACCGCATG TCGACCATTG CAAGTTTATC TACATCGGTA AGTACATCAG AGTCTGGCTC	300
	AACATCAGAA AGTACAAGTG AATCCGATTC AACATCAACA TCATTAAGCG ATTCACAAAG	360
	CACATCAAGA AGTACAAGTG CATCAGGATC AGCAAGTACA TCAACATCAA CAAGTGACTC	420
15	TCGTAGTACA TCAGCTTCAA CTAGTACTTC GATGCGTACA AGTACTAGTG ATTCACAAAG	480
	TATGTCGCTT TCGACAAGTA CATCAACAAG TATGAGTGAT TCAACGTCAT TATCTGATAG	540
	TGTTAGTGAT TCAACATCAG ACTCAACAAG TGCGAGTACA TCTGGTTCGA TGAGTGTGTC	600
20	TATATCGTTA AGTGATTCGA CAAGTACATC AACATCGGCT AGTGAAGTAA TGAGCGCAAG	660
	CATATCTGAT TCACAAAGTA TGTCAGAATC TGTAAATGAT TCAGAAAGTG TAAGTGAATC	720
25	TAATTCTGAA AGTGACTCTA AATCGATGAG TGGCTCAACA AGTGTCAGTG ATTCTGGCTC	780
	ATTGAGCGTC TCAACGTCAT TAAGAA	806
	(2) INFORMATION FOR SEQ ID NO: 2969:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2959:	
	ACCATCTACT CCGTTAATAG TTACACTGTT ATCATTGGTG TTTGGACTTT CAGCCCTTGC	60
40	ATCTAAAAAT ATAAGCTGAT TAAAAATCTGT TATTACTTCT TCCTTGTAAC CATCTATGAT	120
	TTTTACAAAA GATTGCATTA ATTAGTCAAA CCTCCCATAT AATTATTTGC ATTTGCTCTA	180
45	TGCCCACTTT GTTTTGACAA TATTTTTTCT AAACCTCTAA TTGCATCATT AGAACCTAAG	240
	GATTATCCTG AGAAGAAACA GTTTGAATCA ACGCATCTGT TAATTNATTN CCTTTATCAC	300
	TTAACATAAC AATTTGGTTC AACAATTTnC AACTGTAGAA GTATCATTAT T	351
50	(2) INFORMATION FOR SEQ ID NO: 2970:	
<i>55</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2970:	
	AGTGCTTGAT GAATTTTGAC CACAAATTCA AATGTATCAG GCGTTTCTTT TATCCATTTC	60
5	AATATATTTC TTTCCGGTTG TATCGCATAG TATGTCGCAT CTAATTCGAC AACCGGAAAA	120
	TGTCCAGCAT ATGTTTTAAG TTTATCGGTT TGGCGTTCTA AATCTTCATA TAATGAATAG	180
10	TGATCACCCC AACCTGTTAA TCCGATGTTT ATCATATATA TCACCAATGT CATCATACCA	240
	TATAACTTTT ATCATAATCA TTTCAGCGAA CTTTAGTTTG ATGTTTTTGC TTGATTAAAA	300
	TCTTTTCGGC GAnCCTCAGC TTGATGTTTT TCGTTGATTA AATGGTAAAT AGnnACGCA	359
15	(2) INFORMATION FOR SEQ ID NO: 2971:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2971:	
25	CAGACGGTCA AGAATCTTAT ACTTATCAAA ATTTATACTG TGAAGCGAGT CTATTGGCTA	60
	AAAGACTCAA GGCTTATCAA CAATCTCGTG TTGGGCTATA CATAGATAAT TCGATTCAAT	120
20	CGATCATTTT AATACATGCA TGTTGGTTGG CAAATATTGA AATTGCGATG ATTAATACAA	180
30	GGTTGACACC TAATGAGATG ACGAATCAGA TGAAGTCAAT CGATGTACAA TTGATTTTT	240
	GTACCTTGCC ACTGGAATTA CAGGGTTTCA AATTGTATCG CTGGGTGATA TTGAATTCGC	300
35	TGGAGGGATA TTACAnCGAn CAGTTGTTGG GCAACACAAT GGGTATCCAT TTGAACCATC	360
	GGATGRAACT TTGTGCCGAA GGTCGCCTCC ACATRITAATG	400
	(2) INFORMATION FOR SEQ ID NO: 2972:	
40 45	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠.
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2972:	
50	TCAACCGCTT TACAGCCAAC CGGCGACGCT GACATGGATC GCCTGGCCCA TGCCCACGCC	60
	TTGGCGCCAT CATTATTAAT TGCTGCAGTT ACGGTATCTT TAATTGCGTT AAATAAACCT	120

	AAATCACCGA AATGTTATTC GCTTAACGTT TTGTTGTTGT TATTTTAAAA TAAATTTGAT	24
	GCAATTAGTT TGTTTATCCG CACAACATCT TATAATGTAC TTAACTGTAT TTTAAAGAGA	30
5	AAAGAAATAC AGTTAGGCAT TCAAAACTGT ATTTAACACA ATTAAGTTGC CTGAATTCGT	36
	ATTTAAGTCT TATTGAACCT TTTTNAGATA An	39:
	(2) INFORMATION FOR SEQ ID NO: 2973:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2973:	
20	ATTGCAATGA TAGCAATCGG AATCGCACCT GCTAAAATAA ACGTTGTGCC ATCCGTCGCA	60
	TTTGTACCAC GAATCACAAT GTCACCAAGC GTAGGTGCTC CTATAAATGA TCCAACGGCA	120
	ACAACACCTA TCGCAACAAC CAAGGCAATA CGAATGCCAC CGATAATAAC CGAAACAGAT	180
25	AACGGTAATT CAATCATTCG TAGCACTTGA TTGCGTGTCA TTCCCATACC TTTGCCAGCA	240
	TCCTTAATAT TCGCATCAAC ACTAGCTATA CCAGTATAAG TGTTTTTATA ATTGGAAGTA	300
	ACGCATATAA AAACACTGTT AAACTACTGT TCTGAnCTAG CCTGACTACA TTAAATAGTn	360
30	ACATTGCATG ACTGGACTGn TGGATATATT GCATGGATNC	400
	(2) INFORMATION FOR SEQ ID NO: 2974:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2974:	
	GTATTCTTTA GGTAATGCAA CTTTTAATCC TTTAATATCT TTACCAATTT CAGATGTAAA	60
45	GTCTACATCA TCAACTGGTG CACTTGTAGA GTCATTAACA TCTGCACCAG AAATAGCTTC	120
	TAATACGATT GCATTATCTT TTACATTTCG AGTCAATGGA CCAATTTGGT CTAATGAAGA	180
50	TGCAAAAGCA ACTAATCCAA ATCGAGATAC ACGACCGTAT GTTGGTTTCA TACCGACAAC	240
-	GCCACAATAT GGCAGCCGGT TGTCTAATTG AACCACCTGT GTCTGGAACC TAAGCTAAAT	300
	GGTACTAAGC CAGCTGCAAC TGCTGCTGCA GATTCCACCT GANGGAACCA CCTGGGCACG	360

(2) INFORMATION FOR SEQ ID NO: 2975:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 361 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2975:	
	GAGATCGCGG GTTCGATTCC CGTCGAGACC GTACAAATGC CTATCCAAGA GATAGTTTTG	6
15	THITGCGTTT AATATTATAT TAATAAAAGA TATATGGACG AATGATAATC ATATTGATTT	12
	ATCTGTTCGT CCATTTTCTT TAAAATGTAT GAACCTCAAG TAACTTAGTG GTTGGATATG	18
	AAAGATAAAC GTmGACAATA AAATCTTTAT TAGACGTACA AACATATGCT ACTGTCAACA	24
20	TATTTCTTCG TTGTGATATG CCACCAGTCC TCCATAACAT CAATTGTTAA AGTAACGAAT	30
	AACGAATAAT GATATTTnAT TTCTGAGCCA TGACGTGCCA CTAGAAGTTG CCCATTATCC	36
	T	36:
25	(2) INFORMATION FOR SEQ ID NO: 2976:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2976:	
	TGCTGCTTCT GAAGCGGAGT AATTGTGTAT ATCAAATGTC GCTTTTTGAT CAGGAACATG	60
	ATGTAAAGGT GTATATGTTT CACCTGTTTG CTCATCATGT AACACGGCAT GCCTATGACT	120
40	GAATGTACCA CGTTCACTAT CTTGACCAGT TAAGCGAATC GGTGTACCAT CTTGTAAAAT	180
	TGTCGCAAAT GCAAGTNGTT CTGCTTGTGC CCAATCAACT AAACCATCTT CTTTATTAAA	240
	CGGCTCATGA CGCTTCTCAA GAACTTTGTT TAACTTTTTn CAAAATGTTA AAGCCATCCG	300
45	GATATGTTAA CAATGCATCA TTATTTCTTT CAAGTGATCC AAAAGTAAAG GnTTGT	356
	(2) INFORMATION FOR SEQ ID NO: 2977:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 371 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2977:	
	CTTTAGAGCG ACACCTAGTC ACTGCAGCAA GCTATTTCTT TATTTGCTAT GCTATANATC	60
5	GTTAATTACT AGACCTATTG CTGGTAGATT GATGGATGAT AAAAATGAAA ATATTATTGT	120
	CTACCCAGCA TTTATCATGC TTTTCCTTTC ATTTGTATGC TTAATTTCAA GCTATCAAAG	180
10	CTGGTTAATA TTACTTGCTG GTGCTTGCCT AGGTTTAGGG TATGGAAATT TATCATCTGC	240
10	AATGCAATCT ATTGCGATAA AAGTCTCACC CCCGATTAAA TATGGTATCG CGACATCTAC	300
	TTTTTACGTT GGTCTAGATG CCAGGTGTCG GCTTCGGTCC AGCATTCCTT GGGTTAnTTA	360
15	CGCAGnGTTT T	371
	(2) INFORMATION FOR SEQ ID NO: 2978:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 365 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2978:	
	TTGTAATTTC ATGATTACAC CTCAATTGTT CTTGTTGTTA AAACTCAATA TTTAATTGTC	60
3 <i>0</i>	TGCGCTCAAT AATTTGTTGT TTAAGTTGCT CAATATGATT TGATTGGAAT TCTTCCAATA	120
	ATGCTTTTGC TATTTCAAAT GCTACGACAT GTTCGCAGAC GATACTTGCT GCAGGAACAG	180
	CACAACTATC AGAACGTTCA ATTGTTGCTT TAAAGTCTTC TTTAGTATTA ATGTCTACTG	240
35	AATTTAATGG nTTATATAAC GTTGGAATTG GnTTCATTAC ACCATTACGA TAATTGGCAT	300
	CCATTGACAT ACCGCCTCTA ACCACCTAAG TGATTAGANC ACGATAATAC CAATTCACTA	360
	TATAT	365
40	(2) INFORMATION FOR SEQ ID NO: 2979:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2979:	
	TGATTATATA AATCTAACCA GCCAAGTTTC GTCTGCGGTG AGACATTGAC ATTAATTGCT	60
	GCAGATAATG ATTTAACAAC ATGTGTGGCA TGTGATTCAT TAACGATGAC AATATCATGT	120

	TGGCGATGGG TAACATTGTT AACATTGCTT CATTTAAAAC GATATCGAAT TGATTGTCAT	240
	CAAAGGCAA TTTAACAGCA TTCGCTTGTT GAACTTGAAT ATATGATTCA nGACCTGCTG	300
5	CGGAAATGTT TTCCGTGCTT TTTCTAAGCC TTCnTATTAT ATCAACGCCT GAnGTGACAC	360
	CANAGTGTGA GCCAGATAAA TAGAGGTGTG CACAGATACA	400
	(2) INFORMATION FOR SEQ ID NO: 2980:	
10 15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 384 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2980:	
20	TTTCTGCTTT TGATAATCTT TCATCAATGC AAAAGCTACA TTGGACAGTC CTATAATGGA	60
	AATAATGTTT ACAATTGCCA TTAAGCCCAT AAATAAGTCT GCCGTATTCC ATACTGTTTC	120
	TGTTTTTACA ACTGCACCGA CAAAGACAAG TACTACAACA AGACATCTAA AGATAAATAA	180
25	TATTACACGG TTTGTTGATA AAAATTCAAT ATTAGATTGA CCGTAATAGT AATTACCTAC	240
	AACAGATGAA AATGCAAACA GTGnAACGCT TATTGGTTAA GAAAATACCT CCAGCAGAAC	300
	CTARATECTC CTTARGTECC GATTEGETAR CTGCARCACC nTGGAGGGGG TTTATCACCA	360
30	AATTTHCGTC CCGAATATAG TAAA	384
	(2) INFORMATION FOR SEQ ID NO: 2981:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2981:	
	AATTCTAACG ATATCACCAT TTTTACAACC ACGTTCTCTA AGCGCATCAT CAATACCCAT	60
45	CGAACGCATT TGACGAGCAA ATCGACGTAC TGCTGGATCA.CTGTTAAAGT CAGTCATTTT	120
	AAACATTCTT TCAATAGCAT TACCACTTAC CACATAAGCA CCATCATCAT CTCTTGGAAA	180
50	TTGTAAATTT ATCTTGTGAC GGTGTATGTT TATATAATAC TCGGTTAATG CCAACTGACT	240
50	CCTCTTCTTC AACTGTGGAG TCAACATCTT TATATTCTTC TGAATTTATC TGCTTATTGC	300
	ATATGAATAA TTGnnCAATG ATTATCACGC GTTATTGTTG GAAACTGGGA TTAACTGGCA	360

(2) INFORMATION FOR SEQ ID NO: 2982:

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2982:	
	CCTCAACCGC TTTACAGCCA ACCGGCGAGC GCTGnACATG GATCGCCTGG CCCATGCCCA	60
15	CGCCTTGGGC nCATCATTAT TAATTGCTGC AGTTACGGTA TCTTTAATTG CGTTAAATAA	120
15	ACCTTCCATT GAAAACACTC CTTAAAATTT AAATTTGAAG ATAACAAAAA CGTGCGTACT	180
	TTnTGAAATC ACCGAAATGT TATTCGCTTA ACGTTTTGTT GTTGTTATTT TAAAATAAAT	240
20	TTGATGCAAT TAGTTTGTTT ATCCGCACAA CATCTTATAA TGTACTTAAC TGTATTTTAA	300
	AGAGAAAAGA AATACAGTTA GGCATTCCAA AACTGTGATT TTAACACAAT TAAGTTGGCC	360
	TGAATTCCGT ATTTGAAGTC CTAATGGAA	389
25	(2) INFORMATION FOR SEQ ID NO: 2983:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2983:	
	ATATTCCTAT GACAATGTTC AGGCAACGAT TCCAAGGATT AAGAAAAGAT CAACCGGTAT	60 -
	ACTTATGTGA TGCCAATGGG ATTGCTAGCT ATAGAGCCGC TCGTATTTTG AAAAAGAATG	120
40	GATATACAGA TATCTATATG TTAAAAGGCG GCTATAAAAA ATGGACTGGA AAAATAAAGT	190
	CTAAAAAATA GTTTTTGTAA ATTTAATATA CGATTTAATA AAATCTGAGT GTTAATTGAT	240
	CATCAATAAC AATACTCAGA TTTTAATTTT TTAACAAAGT CTGTTACTAT ATTTCTCTAG	300
45	CTTCACTGAT CATTAAACCT TAGTTTCAGC ATAATTAAGG AAGGTCCGnC CCATTTCCAT	360
	CGnGnTCCAT TACCGCCAC	379
	(2) INFORMATION FOR SEQ ID NO: 2984:	•
50	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 374 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2984:	
ATGCTGAAAA TATGGTGCCG TTTATATGAA TCAATTTGAA TCCGAACATA ATCCGGATAC	60
ATATTTCAT ACATTGGGAC CCGAATTGAC TTCAGCATTA CAGCAAATTG ATTATTTTGT	120
GGCTGGTATT GGCTCTGGCG GTACATTTAC AGGTACGCAC GTTATTTAAA GCAACATCAC	180
GTGCAATGTT ATGCCGTTGA GCCAGAAGGG TCCGTGTTAA ATGGAGGGCC AGCTCATGCA	240
CATGACACTG AAGTATCGGT TCTGAGAAAT GGCCGATATT TTTAGAGAGA CGCTTGTAGA	300
TGGGnTATTT ACGATTAAGA TCNAGATGCC TTTCCGAATG TCAAAGTTTG CTATAATGAN	360
GGTGTAGTAA GCAG	374
(2) INFORMATION FOR SEQ ID NO: 2985:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 464 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2985:	
GGAGCCACCA TTGGAGCANG TTACGGTGGA AAAGATACGG NAAGGTTNGT ATGACTGTAN	60
GTCTTGGATA GAGTAACAAA CCTAATTTGT TAACTCTAGG CCCCATATGT CGCAGTACCA	120
TCTGCATGTG TTGTTACATT GTATGCATTT GTTTTACTTG GCTTCTTGEA TGTCGGGCGA	180
GCTCCGTATG ACACTTGACC GTTTGCATGT GTTGTTACGT TGTATGCATT TGTTTTGCTT	240
GGCTTGTTTT GTGTTGGGCG AGCGCCATAT GATACTTGGC CGTTTCCATG TGTTGTTACG	300
TTATATGCGT TTGTTTTGCT TGGCTTGTTT TGTGTCGGAC GAGCTCCGTA TGATACTTGG	360
CCGTTTGCAT GTGTTGTTAC ATTGTATGCA TTCGTTTCGC TTGGCCTCCT GTATGTCGGA	420
CGAGCTCCGT ATGATACTTG ACCATTGCAT GGGTGGTACG TnnG	464
(2) INFORMATION FOR SEQ ID NO: 2986:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	ATGCTGAAAA TATGGTGCCG TTTATATGAA TCAATTTGAA TCCGAACATA ATCCGGATAC ATATTTCAT ACATTGGGAC CCGAATTGAC TTCAGCATTA CAGCAAATTG ATTATTTTGT GGCTGGTATT GGCTCTGGCG GTACATTTAC AGGTACGCAC GTTATTTAAA GCAACATCAC GTGCAATGTT ATGCCGTTGA GCCAGAAGGG TCCGTGTTAA ATGGAGGGCC AGCTCATGCA CATGACACTG AAGTATCGGT TCTGAGAAAT GGCCGATATT TTTAGAGAGA CGCTTGTAGA TGGGATATTT ACGATTAAGA TCAAGATGCC TTTCCGAATG TCAAAGTTTG CTATAATGAN GGTGTAGTAA GCAG (2) INFORMATION FOR SEQ ID NO: 2985: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 464 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2985: GGAGCCACCA TTGGAGCANG TTACGGTGGA AAAGATACGG NAAGGTTNGT ATGACTGTAN GTCTTGGATA GAGTAACAAA CCTAATTTGT TAACTCTAGG CCCCATATGT CGCAGTACCA TCTGCATGTG TTGTTACATT GTATGCATT GTTTTACTTG GCTTCTTGLA TGTCGGGCGA GCTCCGTATG ACACTTGACC GTTTGCATGT GTTGTTACGT TGTTTTGCTT GGCTTGTTTT GTGTTGGGCG AGCGCCATAT GATACTTGG CCGTTTTTT GTGTTGGGCG AGCGCCATAT GATACTTGG CGTTTCCATG TGTTGTTACG TTATATGCGT TTGTTTTGCT TGGCTTGTTT TGTGTCGGAC GAGCTCCGTA TGATACTTGG CCGTTTGCAT GTGTTGTTAC ATTGTATGCA TTCGTTTCCC TTGGCCTCCT GTATGTCGGA CGAGCTCCGT ATGATACTTG ACCATTGCAT GGGTGGTACG TNNG (2) INFORMATION FOR SEQ ID NO: 2986: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double

2395

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2986:

	AACTATTATA TTAACATACA ATGTAGGGAT GTGATGCGCG TGAAGTTTAG GGATAAAGAT	120
	AATCGTCAAG TTAATTTGAC ATTTAAAAAG GATAATGAGA TAGCAGATGG CAATCATGTG	180
5	CTAGCTATTC CAACGTTTAA AAATCAATTG CTTTTTACCA AACATAATTT ACGGGGGATT	240
	GAATTTCCTG GTGGTAAAAG GGAACGCGGG GnAAAGTAGT GCTGGAAGCA GTTACACGTG	300
	AATTATATGA AGAAACAGGC GCCAAATTGA AAAATGnTTA TTACATAGCA CAATGTnCC	359
10	(2) INFORMATION FOR SEQ ID NO: 2987:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2987:	
	TAGAATTCTT CTAATGAATG AGCTTCTTTA GAATGATAAC CATAACGAAT TCCGTCAAAA	60
	CGAGAAAGGT TTGACGAAGC TTCTGATGAT GCAATCACGT AATATGATGG AATACCAAAT	120
25	TTAGTATTTG GCAATGATAC TTCCTCAACG ACAGCACCTA AAGATTTTAA AGTTTCTACA	180
	GCGTTTTGAA CTGCTTCTTT TACGTCATCA GCTACACCTT CACCTAAGTA TTCTTTAGGT	240
	AATGCAACTT TTAATCCTTT AATATCTTTT ACCAATTTCA GATGTAAAGT CTACATCATC	300
30	AACTGGTGCA CTTGTAGAGT CATTAACATC TGCACCAGAA ATAGCTTCTT AATACGGTTG	360
	CATTATCTTT TACANTTCGG GTCATGGNCC CATTTTGGTC	400
05	(2) INFORMATION FOR SEQ ID NO: 2988:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2988:	
45	ATTCATTCAT AATTATCAAT CCTTTGTGTT AAATTACTAT ATAAATAGTG TACGNATTTT	60
	CGAAATTTGT GATCATAAGT TTATTCAATG CTAAACAATA AGGTTGAGAC ATAATCGTAT	120
	CTCAACCTTG AAATTATTAT ACGTTGACGT CACTAGTCAT TCAGTTTTCT TAATGCTGCT	180
50	ACAATCTCTT TTTTAGTATC TTGTACTTCA GAAGCTTGCT TAATCACTTT TGCAGGTGTA	240
	CCAGCAACAA CTGCACCAGC TGGTACATCT TGTGTCACAA TCGnGCCACT GGCAACAATA	300

	nGATTATAAC CGTGGAG	37
	(2) INFORMATION FOR SEQ ID NO: 2989:	
5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	<i></i>
10		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2989:	
15	CCAGGNACCT GGACACGCCG GGTCTTATCA TCAATAATAG TAGCATGACA AATCTACTAT	. 60
	TTTTTCGCTA ATAAGTGGAT GTAATGCTAA TAATGTTGCT GTAGGGAAAC AGCCAGGATT	120
	AGAAATGAGC TTCGTTCCAT TGTTATCAAA CGATTGCCAT TCTGAAATGC TGTAAATAGT	180
20	CATGATTCAA ATCATCTTGT GCCTGCAGCA GTTTCTTTGT AATATGCTTC ATATATTTCA	240
	CGnttcttaa ttctaaatgc gccagataaa tcgataacat gaataccttt ttctactaag	300
	GGAGGGATAC ATGTTTTACT TACGGGTGCT GGTGTCGCAA AGAAAATTAC ATCAAn	356
25	(2) INFORMATION FOR SEQ ID NO: 2990:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2990:	
	TCATTTTCCA AGTGAGACTC TGCTCTTGCT TTGGCTAATT TAGCTCTTTC AACATCAATT	60
	TCTCTTGCAG TTTCTGCAGT CTGAACAATG ATTGAAACTT TATCTTTTCT AACTTCAACA	120
40	AAGCCATCGC TTACAGCAAT ATATTCAGTT CCATCGTGGA AATTTCACTT TTACAAAGCC	180
	TGTTTTTAAA GCAGCTACAG TTGGGAATAT GTCCACTCAT GACACCTATC TCACCAGCTG	240
45	TTGTTTGCAT AACAACGAGT TCAACATTAT CACGATTGTA AACAGAACCA TTAGGAGTGA	300
43	CAATATCTAG GTTTAAATGT CCATTATCCA TTCCnCCnGA ATTGGnTGA	349
	(2) INFORMATION FOR SEQ ID NO: 2991:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 363 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2991:	
_	ATGGCCACGT TCATGCCAAT AGCTGTCGTA GTCGCATTTT CACGTTCTAG TATTGCATTT	60
5	TTTAAATGCG ATGTGTGCTC TACATAACGG CAAATTTTAA GTTTATGAAT CAACATATCA	120
	ATTGCTTCGT TTCGAGACAT GTCGTGGATC AGTAATTATC ATAGTTTGTT GATCAAAAAC	180
10	ATGAGAAGGT TTATTGAGAT GTGAATGTTT CGCGGTGTTA TCTACATTGT CAACCTCTGT	240
	ATCATGTTGT GTAATATCTG TATCATGAAG TTGCGGTTGC GCTGGTGCAT CTACTGCTAT	300
	AACTGGTGTA TTGCGTTTTA ATAATAGTAC AGTAGTnCAT TGTnGACAAG ACTNACCGAC	. 360
15	TTA	363
	(2) INFORMATION FOR SEQ ID NO: 2992:	
20	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2992:	
	AAGTTTATTT TAAAATTCGT AATAAAAATA ATAAACTCAT CGAACGATTT AATGGTCTAG	60
30	GTTTCCATAT CAACTATGAG TACATTAAAT TCAAATTCGA ATCACGTAAC GTAAAAGATC	120
	AAACAATCCC TGAATAAAAC ACCAAGCAAA TACCCTACAG TACATCATTA GCATGTATTG	180
	TGGGTTTTTC TACTTTTTGT AAATATTGAN AATTATNAGT AGTTGTTTTT TACTATTAGG	240
35	GCAGAATGCT TTACAATAAC ATGCAAGTGT CAATTAAGGG GAGCACTTGC ATAAATAGTA	300
	TAGGRGAGTG AGTAGTCCTG GCCATTTCCT GGAATTCCTT AATCGGCAC	349
10	(2) INFORMATION FOR SEQ ID NO: 2993: (i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
15	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2993:	
50	TTTGTGCAAT AAGCGCTTTT TGTTCGTTTG CTTTTGTTGC TAATTCATCT TTCGCAACAT	60
	CTTTAATTGT TGTATCTGCA GTAATACCTT GAATATCAGC AACTGCTTGA TCTTTAATTT	120
	GCGTAACATC ATTAGTTGTT TGTGCATTTA AGATATCTTG ATACGCTTTT TCTTTAGCTT	180

	TTGCTTGATT TTGAGTTGTC ACAGCTTGAT CAACATCATT TTTAGCATTG ATTTAACCGC	30
	TGTGCTGGTT GCGGCTTGAA TTGAATCTTC CAGGCTTCGC TGACTACACA TACACAGTGA	36
5	GNGNAATATT TCGGCTGAAC GCGTGCATGT GAANGCTCT	39:
	(2) INFORMATION FOR SEQ ID NO: 2994:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 326 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2994:	
	AATGACAGGA ATCGTCGTTG CCTTTACTAA TTGACCAGTT AATTCAAAGT TAGGTCCGGA	60
20	CATTITGCCA TCTTTAGCAA TATCAGTATA TATAATGCCG CCAAGAGGTA TATCCGATAA	120
	CCGTCTCACA AACTAAATAA ATTTAACTCT GTGTCCTCTT CCCATCCGTT CACTTTAATA	180
05	TCTTCTCCAT AGGCATCAAC AGATAAATAA ATGCGACCTG GAAATGTATG TGCCATCTCT	240
25	TTAAGCCAAT CAGTATCTTG AATACCTTTC GTTCCAACTA TGCAATAATT AATCCCTGCG	300
	GCAAAGTAGT CCATGATTTG TGACTT	326
30	(2) INFORMATION FOR SEQ ID NO: 2995:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2995:	
40	CTAATGCCGA TGAGCAAAAC ACAAGCATTA GAAATTATTA AAAAAGTTAG GTACGTATAC	60
	AACATTGATT TTGATAAACC GAAGTTAGAA ATGTGGATTG ATGTATTAAG TCAAAATGGA	120
45	GATTATCAAC CAACTGTAAA AGCGGTAGAT GTTTATATCA ACAGTAACAA CCCGTACCCG	180
	CCTAACTTAC CAGCAATCAT GCGTAAGGAA CCTAAAAAAG TATCTATCGA GCCAGTAGAT	240
	AACGAAACCG CTACACACCA TGGGAAAATG CAGAATGACC CGAATTGTCA GACAAGGAAA	300
50	ATAGCGCTAG ATAGTTCATG AATAGTTGGC AGATTGGGGC GAACGATGAT ACGNCATTCG	360
	ATTGAAGTCA TATCGTCGTA CTTAACACCG GACGTTnGAA	400
	(2) INFORMATION FOR SEQ ID NO: 2996:	•

5	(A) LENGTH: 400 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2996:	
10	GAATGTAAGT GTCCCTTAAG CATAGTGCTC CCACCTTAAA TTTTGTTACA TACTTTCATG	60
	GAATGTACGA GAAATTACAT CTAATTGTTG TTCACGTGTT AATTTAATGA AGTTAACAGC	120
	GTAACCAGAT ACACGGATGT TAACTGTGGG ATATTCTTCT GGATGTTCCA TTGCATCTAT	180
15	TAATGTTTCA CGGTTAAATA CGTTAATATT TAAGTGGTGA CCACATTGCA TTGCGTAACC	240
	ATCTAACATA CTAGTTAAGT ACGGTTTGAT CTCTGGnTCT TTACCTAATG ATTTGGnACG	300
	ATACTGATGT ATTGAAATAC CATCCTTACA GCATCGTAAG GGGTCCTAGC CACAGAACTT	360
20	ATGAAGAAAT GCACCTTTTn GGCACnGGCA TGCATGGGGT	400
	(2) INFORMATION FOR SEQ ID NO: 2997:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2997:	
•	ATGATATTAA CCTGTTTACA AGATGGTTGA TACTTGCGCA TGANATTTGA ATCTTCAACA	60
35	CCATATTATT ATGGTACATA CGAAACTGAA AATGAATCCA TAGTTACTGA CAAAGAAAAA	120
	ATCTTAGTAT TAGGCTCTGG ACCAATTCGA ATCGGCCAAG GTGTAGAATT TGACTATGCG	180
	ACAGTTCACG CCGTTTGGGC AATTCAAAAA GCAGGGTACG AGGCGATAAT TGTGAATAAC	240
40	AATCCAGAnA CAGTTTCAAC AGATTCTCAA TTTCTGACAA ATTATACTTT GAACCTTTAA	300
	CTGANGAGGA TGTGATGAAT ATCATTAATT TTGGA	335
45	(2) INFORMATION FOR SEQ ID NO: 2998:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2998:	

	GCAGTAACTA ACTITTGTAC AAAAGGATCA TITTTATCAA CATAATGTGG TGGTTGGACT	120
	TTACCTAATT TCACTTCAAA GLATTGTTGA ATCTCATTTG CAAAACGATC CATAGCTTTT	180
5	TCAAATTCAA ATCCTTCTGG GTAGCGTAAL TGATACCGAA AAGACCTGCG TTTTCATTAT	240
	CATATGTAAT AACACCAATG TTAGTTGTCA CGTCACCCAT GGACATCTGT ATGGGAATTT	300
	CATTCCCARC TTTTTCACCA AAATCRGGAA TTGAAATAAG TGAGCGATTA CGAAATGGCG	360
10	ACAAACGCCT GTGGCATTGA TMGAGCAAGA TTMAAGG	397
	(2) INFORMATION FOR SEQ ID NO: 2999:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2999:	
	AAAGCTGTGT TGGTAAAGAG TTTTGTCGAT TTGGTACGCA ATACACGACA CGACTTGGCA	60
25	TTCGTTTAGA AAAACATTT GAATACATCG ATACACCTCA TAAATTCAAA ATGGGTGTAT	120
•	CAGGCTGCCC AAGAAGTTGT GTTGAATCAG GTGTTAAAGA TTTTGGTATT ATCTCAGTTG	180
70	AAAATGGGAT TCCAAATCTA TATCGGTGGT AATGGTGGTA CAGAAGTTGA AAAAGCTGAA	240
30	TTTTTAACAA CTGTAGAAAC AGAAGATGAA GTAATCAAAT TATGTGGTGC TTTGATGCAA	300
	TATTGANCGC GAAACAGGTA TATATGCNGG AAAGAACCAG CGCCCAGGTT AAGAAGACCT	360
35	GGATTTGAAA ATGTMAAAAG AAGTCCTTAC CTGGGCCCCG	400
-	(2) INFORMATION FOR SEQ ID NO: 3000:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 506 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3000:	
	AACGGTAGTA TTACAGAAAG CTCTACTTAT GGTGATAATG ATACACCAGC GCCACCAACT	60
50	GACGAATTAG GTGGTAGTTG GACACTATGG AAAAATTTAG CGCGACAAAG TCCTGAATTT	120
50	GGTAATCCTG ATAAGTTTTG CCAAAATATT CCTAAAAAAA GTTGGTTTGT TTCAGCAACT	180
	TOTACAACAA ACAATAAAGA GATTATOGAT ACAATAGAAA GTATTTGTAA ACGTGACCCA	240

	AGTTTTACAA TCAATCGTCA GCMACAGTTT aAAGACCAAC CTGrAAATGA AATATCTACA	360
	TGGATTTATG CCTTATATYC AGATGTAAAC GGCGATTATA TTAAAAAGCC AATTACAGAA	420
5	TGTAGTGGTA ATGAAATATG CCAAGNATGG CTGTATCNCT TNGGTGTATC AACTGACAAG	480
	ATTGAAGACT TAGCAAAACA TGCGTC	506
10	(2) INFORMATION FOR SEQ ID NO: 3001:	
15	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 353 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3001:	
20	ATTGATGGCA TCGAAAAACT TTAATAAGAC AACAAGTTGA TGAGATATAT GTATATAGGT	60
	TTGGCATGGA TTTCGATTGC AGTTAATTAG AATAGCTCAA TGCTATAAAT GTAAGTAGTT	120
	GATATGAAGA AACTAATGAA CTAAATGCAA GTATTGTCTA AAACAATCAT TTTATTGAAA	180
25	TTTAGTAGAG CTGAAATTAA TATAACGTCG TTAATTGAAT AACGCTTATG TTATAAGAGC	240
	ACTCATACCA NACCATAATC ATCTATAGNT ATAACAATTC ACGTATAAGG GGCTGTGTTT	300
30	GGCATAGCCC TTAGGTATAC ACCTAATTCC CATTAAAATA GTAGGGGNTT AAA	353
00	(2) INFORMATION FOR SEQ ID NO: 3002:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3002:	
	CAACAAAATG TCTATATGGT AAGTGGTAAA ACGAAAAATG ATGAAGACTA TTCATCAACT	60
	ATTTTATATA ACAACGAAAA AGAATTACAA AAAATTACTG ATGCTGCTAA AAAGCAAAAC	120
45	GGTGTAAAAT TAACGATTAA AGAAGAAGAA AAACAAAGTG TCTTTGTGAG TATACTTTCA	180
	ACATTAATTC CAGTTGTAGT CATAGCGTTA TTATTTCTTC TCTTCCTAAG CCAAGCACAA	240
50	GGTGGCGGTA GTGGCGGTCG TATGATGAAC TTTGGTAAAT CTAAAGCAAA AATGTACGGT	300
	GATNAATAAA CGTCGTGTTC GTTTCTCTGA TGTAGCCAGG GGCCAGATGN AGGAAAACCA	360
	AGGnTTAATT GGAAATTGTT GGTTTCTTGG AAAGGTAATG	400

(i) SEQUENCE CHARACTERISTICS:

5	(A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3003:	
10	ATAACATCGG CACAGCAGCT AAAATAACCA TACCCAAAAT GANTGTATCT TTAAACGTGC	60
	ACCGTAAAGN CTTCCGACTA GCCATGTATA AGCTTTGGCA GCAGATAATT GCTTCGTTGT	120
15	AATGAGTAAT CCTTGGACAA GCGCAATAAA CAACGTTTGC ATCGAAATAC CGATGATTAT	180
	GAGTGTTGTC GGGCGTATTT GTCCTTTCGT TTGAAACACT AATAGTATCA TCATTGCAAC	240
	TGCGCCACCT AATACTGCAA ATAGTGGAGT AAATGTATTG TTAAAGGCTG AAAATGCAAT	300
20	AAAGACAACA GCACTTAAGC TAGCACCACC TGTGATACCG CTAATATCAG GTGAGGCCAA	360
	TGGnnTTTTT TTATACATTT TGGCAACATT TAACCACTTC	400
	(2) INFORMATION FOR SEQ ID NO: 3004:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3004:	
35	CTAATAACAA ATGCGATGAT GATTAATACT AATTTACCTG CTGCTAATAC AGAATCTCCA	60
	AGGAATGAGA AGAATGGTTG ACGTTCAACT TCATTGTTTT TAAGACTGTA GATAATATCT	120
	TCTTTCTCTT CAACACTTAC TGGATTCAAC AAGCATGACA CAATAATCGC GTTAACGGAT	180
40	ATTTAGTGGA ATTGCCGTTA GTACCAGTTC TCCTGGTACC ATTTGTACAT ACGCACCTAC	240
	AATAGCTCCC GATACAGAGC TCCATTGACA TCATTGCGAT TGTTAATACA CGCATTTCAT	300
	ThCAGACGTT TTAGTTGCTC ACTTGGATAC GGGCTAAnGC TThCGTGAAT TGCC	354
45	(2) INFORMATION FOR SEQ ID NO: 3005:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 378 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

2403

GGTCAGCTTA	TTGAACAAGG	GACACGTGAA	TCAGTCTTGC	ATCATCCAGA	ACATGTTTAT	60
ACGAGATTTA	TTATCAACGA	AGAAGAAGAT	TAATGATCAT	TTTAAACATG	TGATGAGGGG	120
TGATGTACAT	GATTAAAATT	AAAGATGTTG	AAAAGTCATA	TCAAAGCGCA	CATGTTTTTA	180
AGCGTCGTCG	AACACCTATC	GTGAAAGGTG	TGTCATTTGA	GTGTCCAATC	GGTGCGACGA	240
TTGCGATTAT	CGGAGAAAGT	GGTACGGnTA	AATCGACGTT	TGAGTCCTAT	GATATTAGGT	300
ATTGAGGAAC	CGGATAAAGG	TTGTGTACCC	TTAAATGATC	CACCGATGCn	TAAGAGGAAG	360
TGAGCCGCCA	CCnATTGG					378
(2) INFORMATION FOR SEC ID NO. 2006.						

(2) INFORMATION FOR SEQ ID NO: 3006:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1785 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3006:

ACnTTAGTTG	GCCAAGCCTT	TATCCGGAAT	TATTGGGCCT	TAAAGCCCCC	TTAGGCGGTT	60
TTTTAAGTCT	GATGTGAAAg	CCCCGGCTCA	ACCGTGGAGG	GTCATTGGAA	ACTGGAAAAC	120
TTGAGTGCAG	AAGAGGAAAG	TGGAATTCCA	TGTGTAGCGG	TGAAATGCGC	AGAGATATGG	180
AGGAACACCA	GTGGCGAAGG	CGACTTTCTG	GTCTGTAACT	GACGCTGATG	TGCGAAAGCG	240
TGGGGATCAA	ACAGGATTAG	ATACCCTGGT	AGTCCACGCC	GTAAACGATG	AGTGCTAAGT	300
GTTAGGGGGT	TTCCGCCCCT	TAGTGCTGCC	Antaacgcat	TAAGCACTCC	GCCTGGGGAG	360
TACGACCGCA	AGGTTGAAAC	TCAAAGGAAT	TGACGGGGAC	CCGCACAAGC	GGTGGAGCAT	420
GTGGTTTAAT	TCGAAGCAAC	GCGAAGAACC	TTACCAAATC	TTGACATCCT	TTGACAACTC	480
TAGAGATAGA	GCCCTTncTT	CGGGGGACAA	AGTGACAGGT	GGTGCATGGT	TGTCGTCAGC	540
TCGTGTCGTG	AGATGTTGGG	TTAAGTCCCG	CAACGAGCGC	AACCCTTAAG	CTTAGTTGCC	600
ATCATTAAGT	TGGGCACTCT	AAGTTGACTG	CCGGTGACAA	ACCGGAGGAA	GGTGGGGATG	660
ACGTCAAATC	ATCATGCCCC	TTATGATTTG	GGCTACACAC	GTGCTACAAT	GGACAATACA	720
AAGGGCAGCG	AAACCGCGAG	GTCAAGCAAA	TCCCATAAAG	TTGTTCTCAG	TTCGGATTGT	780
AGTCTGCAAC	TCGACTACAT	GAAGCTGGAA	TCGCTAGTAA	TCGTAGATCA	GCATGCTACG	840
GTGAATACGT	TCCCGGGTCT	TGTACACACC	GCCCGTCACA	CCACGAGAGT	TTGTAACACC	900
CGAAGCCGGT	GGAGTAACCT	TTTAGGAGCT	AGCCGTCGAA	GGTGGGACAA	ATGATTCCCC	960

	TATATTCGGA ACATCTTCTT CAGAAGATGC GGAATAACGT GACATATTGT ATTCAGTTTT	1080
	GAATGTTTAT TTAACATTCA AAAAAATGGG CCTATAGCTC AGCTGGTTAG AGCGCACGCC	1140
5	TGATAAGCGT GAGGTCGGTG GTTCGAGTCC ACTTAGGCCC ACCATTATTT GTACATTGAA	1200
	AACTAGATAA GTAAGTAAAA TATAGATTTT ACCAAGCAAA ACCGAGTGAA TAAAGAGTTT	1260
	TAAATAAGCT TGAATTCATA AGAAATAATC GCTAGTGTTC GAAAGAACAC TCACAAGATT	1320
10	AATAACGCGT TTAAATCTTT TTATAAAAGA AAACGTTTAG CAGACAATGA GTTAAATTAT	1380
	TTTAAAGCAG AGTTTACTTA TGTAAATGAG CATTTAAAAT AATGAAAACG AAGCCGTATG	1440
15	TGAGCGTTTG ACTTATAAGN ATGNNNGATA TGTTGAATAT CCATATCTAA AGCTAGATCT	1500
	AAACTTTGTT CAAAATCTTC AATCGTCTGT TTCGGTAAAT GATACATTAA ATCTAAACTG	1560
	ATTGATTTAA TACCTGCGTT TTTAGCATTT AACACCGAAG TGTAAATATC TTCAGTATTG	1620
20	TGCGTTCTAC CTAAAACAGA CAATAACTCC GGCTTGAATG TTTGAACGCC CATTGAAATC	1680
	CTTTTTACTC CATATTTCTC TAATAGTTGG ACTTTCTCTT TAGTTAACTC ATCAGGATTT	1740
	GCTTCAAATG TATACTCGCC TGTGATTGTA AACGTATCAC GTATT	1785
25	(2) INFORMATION FOR SEQ ID NO: 3007:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 360 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3007:	
35	TGCAAAAAAC ACAATAACGA TAAATGTTCC CATTGATCCT ACAGCATCGC GAACATTTTA	60
	CCTAAGTCTT TTGTATTTTT AATTTCTTTG CTTAAAATCC CATAAACTAA TCCAGGTACT	120
40	AAAAATACGA CAAGAATAAT TAATCCGACA CCGTTAATTA ATGGCGATCG TCTAGTAAGC	180
	TGCCTGTTTT AGCATTTCTT AAAAAGCTAT GTCAGGAATG GCTGTAATAA TTAATAAAAT	240
	AATTGNGCTA TGAACTGATA TTTGCCATTT TAAAANATGT GCTCTTTGTC AGAATATGTG	300
45	AGATGTNCTC ATGGCATCAT GCATTAAACT GCATCATATT TTCCTAATCT AGGATAATGA	360
	(2) INFORMATION FOR SEQ ID NO: 3008:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3008:	
	TTGCCTTCAA ACACATACTT GTAGTCGGAT GATCACCTGT TCCAAAAGnC ATACCTGGGT	60
5	CGAGCTCAAT GCAAAGCTCT TCATCCGCTT CTTTAGCATA TGTTTCCCAA CTAGGAACTA	120
	TTGTGAACTT CTTCGACGCT CGGGAATGGA TGGAAATAGT TTTTCCATTC ATTTTCCCAA	180
	TCCGTCTCTG CAATAATTTG CTCACTGAAT TGAACGTTAT GTTGATCAAG TTCATCTAAA	240
10	TTTAATAACT CATCTTTGAA TTTGCTGTCG CAACTGTATC ATCATAAGTG CATTTCAGTA	300
	AAATAGGCTT nGCAAnCTTA CTCCCTTATC TGGGATAAAG CCTCGGTTTT	350
15	(2) INFORMATION FOR SEQ ID NO: 3009:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3009:	
25	TCTTATATCA CCAGGAATTA ACACTGCCTT TTGACCACTT TCTTCAATCA CTTGGCGTAC	60
	TTCTTGTGCA TCTTGTTCTT CACTCGGAAG ATAGTTAATC GCTACATCTG CACCTTCTTT	120
30	AGCATACGCA ATTGCTGCTG CACGCCCTAT TGCTGAGTCA CCACCTGTGA CTAALATTTT	180
	ATAGCCTTGT AAGCGTTGAT GACCTTGGTA AGACGTTTCG CCACAATCGG GTGCTGGCGT	240
	CATTTCAGAT TGTAAACCCG GTACCTCTTG TTCTTGTTTT TCATAATCCG TTGTTTTAAA	300
35	TTTTGTTCnA GGaTCTkGAG CkGCCAtTTT TtGACAyCtC CGTATnCGCT TAATGGGTAT	360
	CATITACCCC AATCTTCCTA AGG	383
	(2) INFORMATION FOR SEQ ID NO: 3010:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3010:	
	TAATTCAACG GGAATTTTCC CTTTGAAGTT AACATAACGG TAGGCTGCTT TAACAGCTTC	60
50	ATCATCGGGC GCTTCGACAT CTTCTAATTC ATATGCAATG CCCAATGTTT TCCACTTATG	120
	AACACCTAAC TGATGATATG GCAGAATTTC AAACTTTTCG ACGTTATCAA GAGAATTAAT	180

	TGTCGAATCC ATACCAGGTG GTTTCATATC TGACAGTTTG CGCGCGAAGT TAAAGGATGT	300
	GTGTATTAGG GCTTTCCCGG TCCATCCAAA TANGGTTGGT CCATTAATCC ATAAGGTTTT	360
5	Anaatchaaa taataatcca gtccggta	388
	(2) INFORMATION FOR SEQ ID NO: 3011:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3011:	
	ACTGCTGTAA CGTCAGTTGA TCTTTTCATT CTTGGTTTAA TTTCTGAGAC GTTACTTGGT	60
20	TGnGCnAnGC CACCAATTGC CATACCGACA GATTGGAAGA ACAATGCATC AGTTCCACCA	120
	ACACCAAAGA TGTCACCAAG TACAACGAAA CCTACATATC CAACTGTAGA TACAATTAAA	180
	ATACCCATTG CTTTTTTAAA TTCAGGATTA TCTGATTGAC GTnCATTTTT AGCTTTAAGT	240
25	GAAGTAAGTG CTACACCAGT AACTAATAAT ATCATGGCGA TTAAACCAAA GATAATTTGA	300
	GTCATTGAAG ACCATTCACC TAAAAAGATA ACGCTGGAAT AATGGTGTAC CCAACTAATT	360
	GGCATACCTG GTAGGAAACT GGGCATAGGT ATTTGGATAC	400
30	(2) INFORMATION FOR SEQ ID NO: 3012:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3012:	
	TTATCGGATT CGTTAATACT GGCGGTTTAC GCAATAGTTT AGATGTAGAT GATAACAATG	60
	TGCCTATTAA ATTTAAAGAA GAGTTCGAAC CTAGAAAGTT TGTTTTCACT AACGGCGAAA	120
45	TTAAATACAA TAGCAATTTC GAAAAAGAAG ACGTACCGAA TGCATCAAAC CAACAAAGTG	180
	CGTCAGATTT AAGTGATGAG GAACTTCGCG GAATGGTTGC GAGTATGCAA ATGCAGGTGG	240
50	CACAGTAAAC GTATTAACAA TGGGATTAGC TCAACCAAAC GCTATGTTAA CACCACAGTT	300
50	GACTGACTGG AAACTACCAA ACCAGTACTG AGGGGRCGTT AATAATGAGT GTTTCCACTT	360
	አለርርአሞአአለር ምምምርምምርርም ርምምለአለርርር አምምእርምርምርር	400

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3013:	
10	GGCTGTAATG AAAATCCAAA AGCCAAGCTT ATTTAATTCG CCTTCATGTG TGCGTGAATC	60
	AATAGTGTTT GTATCATGAC TCATGACTTA CAGCCTCCCT TTCTTTAATA CGCGCTTCTC	120
15	TTAATCTAGC TTCAGTTTCT GCAACTTCAG CAGCAGGGAT ATGATATCCG TGATCGATTT	180
70	GGAAACTGCG ATAAATCATA GTACCAAAAA TACCGAATAA ACAAATTAAT GCTGGAATTA	240
	CAGTTTCGAA AATTAAGAAG AAACCGCCGA TAGTCATAAA GATACCAATC CAGAATCCAA	300
20	CAGGAGTAAT GGTTTGGCAT ATGGATGGCC TTGGNAATAA TGGGTTGNCC TAAGTAATGG	360
	CCGACCAAGG TCCTTTCCAn ATCCACCAA	389
	(2) INFORMATION FOR SEQ ID NO: 3014:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3014:	
35	AATCGCTTCG GTTAACTGTT CTAACCATTC GTAATAAACA TGTGTATGAT CAAGCTGAGC	60
35	TTTAATTTTT TGTGCCTCTT GTGTTTCAGC TTCAGTTAAA TCACTGCTTT CAAGTAATGG	120
	ATTGATAATA GCTTGAGCAT CTTTTACTGC TTCGACATTG ATGTCAATTT CACGCTGGAA	180
40	TTTTTTAGTG AAAAAGTTTC GGAAAAAGAT GAAAAAGTCT TTCTCGGCGA TAAAATGTGT	240
	TTGCGGCTCC TCTCGTAAAT TGTGGTTAAC AATATCAAAT TCCTGCAATT CCTAACGCAG	300
	CACTCATACT NGTTGCnCAT TGCAATGATG ACGCATTCAC AGGGCAACTG CTCAACACAT	360
45	GGGCATAAAG TTCCACACTC ATAGGCAACA ATCATGGCGG	400
	(2) INFORMATION FOR SEQ ID NO: 3015:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3015:	
	ncctatctct ggtcgagagt ctttgagctg aaaaatgtga cacacaaaat tgcaatggna	60
5	TCAACAAATG TTTCCCATTG TGGATGGTCT TGACTAAGTA TTTGGTGTTC AACTTGGTGA	120
	TTTGCCATGA CTAATACCAT GTCATTTGTA CTTGTATCGC CATCAACAGT AATCATATTA	180
	AATGTATGGT CAGTCGAAGA TTTTAATAAT TGATGAAGTG TATTCGATTC AATCGATGCA	240
10	TCGGTTGTTA TAAAAGCAAG CATGGTAGCC ATATTTGGGT GAATCATACC TGAACCTTTG	300
	GTGCTACCAC CAATTGTAAC GGTTTACCAT CGATTTTAGT GATACAGCGA TATGTTTTGT	360
15	ACAGGTATCA GTGTTAAAA	379
	(2) INFORMATION FOR SEQ ID NO: 3016:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3016:	
	CATATAAATT GCTAACGTGC CACCATTCAC TAAGGAATTG ACATCCACTT CATTTTCTTC	60
	TGAATCTTTA AAGTGACCTG TAGAAAATGT CACACTTTTA GCAACTGTAC GCATTGTCAA	120
30	ACCTGTCTGC ATAGTAGCAA CTGCTGCGCT CGCTGATGTC ACCCCTGGTA CAATTTCAAA	180
	CGCAATATGA TGTTCATTTA GTATGTCGAC TTCTTCTTGC ACACGACCAA ATATCGCTGG	240
35	ATCGCCAACT TTAAGTCTAA CAACCTTGTT ATATCGACGC GTGCTTCCAC GATACAGTCA	300
	TTATTTTTCT GGCGGAAAAT GTTTGGAAAC GGCTTTTACC AACANGGTAA TTCAGAGGCA	360
	ATCGCAATGN AAATTACGGN TCACNAACGG TCATTGGATG	400
40 .	(2) INFORMATION FOR SEQ ID NO: 3017:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3017:	
	CCTTTTCTC TTCTTTCATA TCTGCAAACG TGCATCAATT TTAGGATCTA AATCTCCAAA	60
	TGCTTCTGCA ACTGGTTCAG AGCGTTCATA ATACATACGA ACTTTTGGAT ATAACGCTTT	120

	TCATTTAACT GTTCATCAGT ATATTTATCA TATGCTTTTG TTGCTTGTTT TAATTCTGCT	24
	TTAACACCAT CATCTTTTT CGATGTCTTT GAATCATCCT TCTTACTATC GTCGTTCCCC	30
5	ACATGCAGCA	31
	(2) INFORMATION FOR SEQ ID NO: 3018:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3018:	
	TCGCTTTGTA AATTCTGGAA CAAAGnCAGT CATGACAACA ATTCGTGTTG CACGTGCATA	6
20	TACTAAAAGA AATAAAATTA TAAAATTTGC TGGATCTTAT CATGGCCATT CTGATTTAGT	120
	ATTGGTTGCA GCAGGTAGCG GCCCATCTCA GCTCGGTTCT CCAGACTCAG CTGGTGTTCC	180
	AGAAAGCGTC GCACGTGGAA GTCATTACTG TACCTTTCAA TGATATTAAC GCCTATAAAG	240
25	AAGCAATTGG AATTTTGGGG TGATGAAATT GCCGCAGTAT TAGTAGAACC AATTGTTGGT	300
	GAACTTTGGG AATGGNNAAT GCCTCAACCT GGGATTTTTA GGAAGAGGGT	350
	(2) INFORMATION FOR SEQ ID NO: 3019:	
30 35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3019:	
40	ATATCATGTG CCAGTGAAAG CGGCACTGGn CGGATATGGC GCACATATGG ACATTATGAA	60
	AGAGTACCAA TTAATCATTT TAGCGCCACA AGTTGCGTCT AACTATGAAG ATATTAAGCA	120
	AGATACAGAT AGATTAGGTA TTAAATTAGC GAFGACTCAA GGTGCTGAAT ATATCAAATT	180
45	GACACGIGAT GGCCAAGCAG CCCTTGATTT CGTTCAACAA CAATTTGAAA ATTAAGAATA	240
	GGAGTTTTC ATATGACTAA AACATTACCT GAAGGATTTT ATTTTTGGTG GAGCAACAGC	300
	AGCATATCAA GCAGGAAGGT GCGACCAAAT TACGGGATGG GTTAAAGGTC GCGTGCATTG	360
50	GGGATACGGT ATTTTAGGAA GGAAAACTTA TTTGGTACCA	400
	(2) INFORMATION FOR SEQ ID NO: 3020:	

5	(A) LENGTH: 361 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3020:	
10	ACGTTCGTCT TACGTTTAAC GCCATACGGT GTATTAGCAA TTATGGnCCA ACACATTATC	60
	GACAAGTGAC TTTGGCGCCA TTTGGACTTT AGGAAAAATT CTTAATCGCA TCGTACGCTG	120
	CATTAATTAC GATGTATATC ATTCACTTAA TTATTTTAAG CCTGTTAGGT ATTAGCCCAA	180
15	TTCGCTATGT TAAAAAGACT TTGGAAGTAT TAATCTTTGC ATTCACATCA CGCTCAAGCG	240
	CGGGTGCCTT ACCAATGAAT GTACCAACAC CAACCAGACG TCTAGGCGTG CCAGAAGGTA	300
	ATGNCAATTT CGCTGCGACA TTTGGAATGG CGATTGGACC AAATGGGTGG GCAAGNAATT	360
20	A	363
	(2) INFORMATION FOR SEQ ID NO: 3021:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 356 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3021:	
	CAATGACCAT GACCAGTTGA TTTGGAACAA TGATTGACAT TGGAGCTATG CATCAAGTTT	60
35	GTCTTTAAGA CTACTAAACC CACGAACCAT GTTAACCCCG TGGTGCACCA TCACCAATTG	120
	nctcgatcta attcagttaa ttcagattca tgttttttaa acgtttcttc taaatttaat	180
	AAACGTGnCT TTCATATCAT TCACTTTCAT TTGTGnCCAC CTCATAAATG TATATTATCA	240
40	TATTCACTCT TATTAAAGTA TGACTGTTGT TGGTGCTAAA AATGCTCCAA ATATTCGGTT	300
	TATTAGGCAC GATAGTTATA GAAAAACCTG ACAGTCTAAA GATGTCATAT AATCAC	356
	(2) INFORMATION FOR SEQ ID NO: 3022:	
45 50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 332 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3022:	

	GTGTTTGGTC CAATATCCAT ACCTTCTTGG nTCTGCTGGA ATTGAATCAG ATGGTACTAC	120
	AGTGATTTTG GCATCATTAG NAAAATTCTT TAGTCAACTT TAGTGTCTAC TGGTAATACA	180
5	ATTTTATCAC CATGTTTTTC TAATAAATCT TTTGCGAGTC GGATTTTATC TTCTTCTAAT	240
	AATGAAATAC CAATTTCTTT ACCTTGCGCT TTTAAGAAAG TATAAGCCAT ACCTCCGCCG	300
	ATGATAATTT TATCAGCTAT GTTAACTAAT AA	332
10	(2) INFORMATION FOR SEQ ID NO: 3023:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	·
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3023:	
	AAAGGTATTC CACAAGAATT AGCTTTGCAA AAATGCCAAA GCAAACAGAA GATGGNACAA	60
	TTTAAAGTGn CCTACAATCA TGAATGAGGA GGACGCGTAA GATGAGCATT CGCTACGAAT	120
25	CGGTTGAGAA TTTATTAACT TTAATAAAAG ACAAAAAAAT CAAACCATCT GATGTTGTTA	180
	AAGATATATA TGATGCAATT GAAGAGACTG ATCCAACAAT TAAGTCTTTC TAGCGCTGGA	240
	TAAAGAHAAT GCAATCAAAA AAGCGCAAGA ATTGGATGAA TTACAGGCAA AAGATCAAAT	300
30	GGATGGCCAA T	311
	(2) INFORMATION FOR SEQ ID NO: 3024:	
35	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3024:	
	ATTAGACATT ACAAGGTGCA GTACGTGCAA CATATTAGAC ATATTGAATT AAGTGGTCAT	60
45	Gnaaggtatt gacagttaaa aaagttgaac aattagaaga aatcgagggc ttaatattac	120
	CTGGTGGCGA GTCTACAACG TTACGTCGAT TAATGAATTT ATATGGATTT AAAGAGGCTT	180
	TACAAAATTC AACTTTACCT ATGTTTGGTA CATGCGCNGA TTAATAGTTC TAGCGCAAGA	240
50	TATAGTTGGT GAAGAAGGAT ACCTTAACAA GTTGAATATT ACTGTACAAC GAAACTCATT	300
	CGGTAGACAA GTTGACAGC	319

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3025:	
10	GGTGCCAAGC AATAAATATG ACTATGCTCA AACTGAATTA ATGGTGGGTG TGTCGCCATC	60
	GTAATTGGAT CGTCTGAAGG CGCATATAAA TGATAGTGCT CTTCGAATAA AGGTAGCATA	120
15	TGTAATTGTT TGTGTTTACG TATTTCTGGT GGTAAGTTCC GTGAAACCCA ATGTCTATAT	180
	TCCCATTTAA TACGCTATTT ATAANTGTGT CATGTTCTAA TAAGCTCGGT ATGACATGTG	240
	TATCATTTTG TAAAATGAAC GTTTGGATAA GNGGGAGTAA CATGTGGGAT ACGTCACTCT	300
20	CATCAAGCCA TGTAGATACn	320
	(2) INFORMATION FOR SEQ ID NO: 3026:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3026:	
	TCTCAACAAA TGCATCCAGT ACTTAAATTG GCATTATAGT AATTTAAGNA CAATATATCA	60
35	ATATTTCTCC TTATCCAGCA ACAGCAAATT TATTGGTAAG GTGTACGATT GAACCTTTAG	120
	TCAATGAAGC AGGTACATTT GGATTGGCCA GGTGGATTTA CTTCAACTGA GCGCTTTGTG	180
	AGAATGGGCA TTTATGAAAG CAAACATTGC TCAAAACAAT GATAAAGAAA TGGATTTAAT	240
40	GAATGCATTT TATTTATTAG ATGCGGTAAA TATACCGATT GGAATTGTAC GTCCGCATGA	300
	TGCTGACAAT CACTATACGA TGTATCCA	328
	(2) INFORMATION FOR SEQ ID NO: 3027:	
45	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
50		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3027:	

	ATTGAAAATA TGTGTTCTnT GTAAAATTTT AATCGTTCGC CACGATGCTG TTGATAAAAA	120
	TTCAAAAACT GGAGTTGATC TTCTAGTTCA ACATAATCAT CGTAATTAGA CATGTAACCT	180
5	TTGATTAAGA TTTCAAGTAC ATGATCTTCG ATAGTATTGN TTTTAACTTG TTGTTGAGCC	240
	GCTATATCTT CCATCGTGGA ATTGTTCAAG CAATTTTGTA TAAGTAATAT AAGTTCGATT	300
	TAATGAATGT AGGTTTCATT AT	322
10	(2) INFORMATION FOR SEQ ID NO: 3028:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 313 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	•
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3028:	
	CAAGAATCTT ATACTTATCA AAATTTATAC TGTGAAGCGA GTCTATTGGC TAAAAGACTC	60
	AAGGCTTATC AACAATCTCG TGTTGGGCTA TACATAGATA ATTCGATTCA ATCGATCATT	120
25	TTAATACATG CATGTTGGTT GGCAAATATT GAAATTGCGA TGATTAATAC AAGGNTGACA	180
	CCTAATGAGA TGACGAATCA GATGAAGTCA ATCGATGTAC AATTGATTTT CTGTACCTTG	240
	CCACTGGAAT TACGAGGGTT TCAAATTGTA TCGCTGGATG ATATTGAATT CGCCCACCGG	300
30	GCnTATTACA ACG	313
	(2) INFORMATION FOR SEQ ID NO: 3029:	
35	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3029:	
	CTTCCAAAGA AAAGACCACA GTTTTTGACG CATCAATATG GTGCAATTTT AGAGACACTG	60
45	TAGTTGCAGA AGATGGTTCA GTTGGACTTT GAAGACAATC GTTATACAGA AACACGCGTG	120
	CCGCTTATCC AATTAATCAC ATTGACAATA TTGTAGTACC ATCTAAAGCA GCACATCCAA	180
	ATACAATTAT TTTCTTAACT GCGGATGCAT TTGGTGTTAT TCCACCGATT TCAAAGTTAA	240
50	ATAAGACCAG CAATGTATCA TTTCTTGAGT GGTTCACTTC TAAATAGCTG GnCAGAGCGT	300
	GGTGTGACAG ACCTGACCAT CATCTCAACA TGTTCGnGCA CCGTCTTCCG TACATCNACT	360

(2) INFORMATION FOR SEQ ID NO: 3030:

55

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3030:	
	TGATGGATTG GCTAGCAGGT GTTTACATTA ACTCATTAAA TGTTATTCAC TACATGCACG	60
15	ATAAATACAG CTATGAACGT ATTGAAATGG CATTACATGA TACAGAAATT GTACGTACAA	120
	TGGCAACAGG TATCGCTGGT TTATCAGTAG CAGCTGACTC ATTATCTGCA ATTAAATATG	180
	CACAAGTTAA ACCAATTCGT AACGAnGAAG GTCTTGTAGT AGACTTTGAn ATCGAGGCGA	. 240
20	CTTCCCTAAA TACGGTAACA ATGACGACCG TGTAGATGAT ATTGCAGTTG ATTTAGTAGA	300
	CGCTTCATGA CTAATTACGT GGTCATTAAA CATATCGTGA TTCAGACCTT CCATGGGRGT	360
	ATTACCATTA CTTCAACGTG GTnTCGGGTA GAAACTGGGT	400
25	(2) INFORMATION FOR SEQ ID NO: 3031:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3031:	
	nGCGTTTAAT CACATCTTTT TGATAATGTT CCCTTACCAT TTCTTCATGT GCATCTGCAT	60
	AGTCTTTTCC AAATGGCAAA CTAAACTGAT ATGCAACTTT TAAATAGGCA TCTATATGCG	120
40	ACTCGTCAAC GATGGCAATT TCAACGTCNA GTTACGCGGA CAAATTGGCA AGCGCATCAC	180
	TTTCTATGGC ATACAATTCC ATAATACCTA GTTCAAAATT CATATCTTTA AAACATAGCC	240
	ATCCAATGGA TTATCAAGTT GTTCATTTTC CGGGAAAACT NAAACGCATA AATGATTTGG	300
45	AACCTTGATT TGTATGTGA	319
	(2) INFORMATION FOR SEQ ID NO: 3032:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3032:	
	AAGAAGTGGC AATTATGATT GATGCTCTAG CTGACAAAGG GAAAAAAGCA TTAGAAGCAT	60
5	TATCTAAAAA GTCACAAGAA GAAATTGATC ATATTGTTCA TCAAATGAGC TTAGCAGCTG	120
	TTGATCAACA TATGGTGCTA GCAAAATTAG CACATGAAGA AACTGGAAGA GGTATATACG	180
10	AAGATAAAGC GATTAAAAAT TTATACGCTT CTGAATATAT ATGGAATTCA ATAAAAGACA	240
.•	ATAAGACAGT AGGGATTATT GGTGAAGATA AAGAAAAAGG ATTAACGTAT GTAGCGGAAC	300
	CAATTGGTGT TATTTGTGGT GTTACCGCCC AACCACCAAA TCCCTACGTC CGACCACCTA	360
15	TTTTTAAAGC CGATGGATTT GCCATTTAAG ACNGGGAATC	400
	(2) INFORMATION FOR SEQ ID NO: 3033:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3033:	
	TAGCGGTAAT CGAAATTGGG GACTAAATTT CGCAAAAGCG GGTCGCACGA TATCAGAAGA	60
30	GTATAATGTC CCTTTATTAA TGAAGTTTGA GTTACATGGA AAAAACAAAG ACGTTATTGA	120
	ATTTAAGAAC AAGGTGGGTA ATTTTAATGA AAACCATGGA AGAGAAAAAG TACAATCATA	180
	TTGAATTAAA TAATGAGGTC ACTAAACGAG AGAAGATGGA TTCTTTAGTT TAGAAAANGA	240
35	CCHGAGCTTT AGTAGCTTAT TTAGAGGAGT AAAHGACAAA ACATCTTCTT CGACACTGAA	300
	TCG	303
	(2) INFORMATION FOR SEQ ID NO: 3034:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 340 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3034:	
50	CTnCGCTATT TTGTAGGACA TCTTCTAAAG TGCTAGGnGA AGAGATTATA GAATAGGCAC	60
	TATCAATACC GAAATCGTAA ACATGTTGAT AATTTTCGCC TAGACTGCCA CAAATCGCGA	120
	TGACAGGAAT ATGATATTGT TTTGCAGCTA ACGCAACGCC TGACGGGTGT TTTACCAAAG	180

	TGATGAAAAT CTGTAATGTC AAAGACGGAC ATCAATGACT TTTGTTGAAA GTTGTCTCAC	300
	AAAACGnTAA TGAATGCTGC GGCCCATGAC CGGCCAGCTG	340
5	(2) INFORMATION FOR SEQ ID NO: 3035:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3035:	
	AAAGAACATG GTGTAGCAAT AGTCTCTGGA GGTGGAAGCG GACATGAACC TGCGCATGCC	60
	GGTTTTGTTG CAGAAGGTAT GCTAGATGCA GCGGTTTGTG GCGAGTATTT ACATCACCTA	120
20	CACCTGATAA AATATTAGAA GCTATTAAAG CAGTAGATAC TGGTGATGGT GTATTACTAG	180
	TTGTAAAAA CTATGCAGGT GACGTGATGA ATTTCGAAAT GGCACAAGAG CTTCCAGAAA	240
	TGGAAGGTAT AAATGTTCAA ACTGTTATTG TTCGTGnCGn CATTGCTGTG ACAAACGnGT	300
25	ACA ·	303
	(2) INFORMATION FOR SEQ ID NO: 3036:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
 35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3036:	
	GGGGAAAGTA AATTAACAGC TGTGTAGAAT AATTAAGGTT TTAATTTATA TAGAACAACT	60
40	TATTGTAAAC TTTTCATTTC TTAAAGTTTA CAATGGTGCT ATAATAATGG TCATGAAATA	120
	CGAAAGGAAG GAAAAAATGA ChACAAAACA GTTAGTATAT ACAGCTTTAA TGACAGCGAT	180
	TATCGCTAGT TTANGATTGG TACCGGTAAT TCCACTACCA TTGnCTTCAG TACCAATTGT	240
45	ACTTCAAAAC AGTGGTATTT CTTAGCAGGG GCGATTTTAG GACGTAAATA TGGCACATTA	300
	AGTGTTATCG TCTTT	315
50	(2) INFORMATION FOR SEQ ID NO: 3037:	
÷*	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 330 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
55		

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3037:	
5	GCACCAATTG ACGAAGGAAT ACCGAATCCC ATTGTTCCTA AACCACCGCT TGTAACCCAT	6
	TGTCCGTGAT TTTTAAATGG ATAAAATTGA GCTGCCCACA TTTGATGTTG TCCCACGTCT	12
	GTAGTAACAA TTGCTTCACC ATTTGTAATT TTGCCGATAT ATTCGATTGT TTGTTGTGGC	18
10	TTACAAAATA CTTGATCTTC TTCACCAAGT TTAAATGGGT GTTTCTGCTT ATTATTTTGA	24
	CAATGTTTAA CCCAGTCACT GTGTTCTATA GTCTCAACAT TTTTATCATT TAAACCNTCC	30
	AAAAAACCTT TACANGCCNG CAAAAAAACC	330
15	(2) INFORMATION FOR SEQ ID NO: 3038:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 334 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3038:	
	GTGAGTCCAC ATAATAACTT TGACGTCCTG TTAATGTTCT AAAAGGTACT AGACGTTCTA	60
	TATTCGTTGT AAATGGTGAA TATCGTCGAC CTTGTTTATT TGAACCTGGG AATACTGCTG	120
30	TCGGTATTAC TTCTCGTGGT TGTGAAGTTA TATTTAAAAA CGAAATTTTC TCAGCAGCGC	180
	TGTCGCTAGA AATATCTTTT AACGGCATTC CAGTTTGTTC TTCGAGATCT TCATATGGAT	240
	TTTTGTGnAT AATTnACCAT TCGTAGCAGA TGGAAATACT TGAGTATnGG CATCAGCGAC	300
35	ATTGACGTGC TGTATCAATA CGTGGACGAT TCGC	334
	(2) INFORMATION FOR SEQ ID NO: 3039:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3039:	
	GGTCTGATCG TGGTGAATGA AAAAGGTTCT TCTCTGTAAT GAATTATCTC TTACCGATGC	60
50	AAGATATTAT GAGCATGCAT TGCTCAGCAA ACGTTGGTGA AAAAGGCGAT GTTGCATTAT	120
	TCTTTGGTCT ATCTGGCACT GGTAAAACAA CCTTTATCGG CTGACCCACA CCGTAAACTA	180

	ATGCAAAAGC AATTAATCTT TCCAAAGAAA AAGAnCCACA GnTTTTTGGA CGCATTCAAA	300
	TATGGTGCAn TTTTAGAGAA CACTGTA	32
5	(2) INFORMATION FOR SEQ ID NO: 3040:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3040:	
	GTGATATTCA CGANCGTTAT TTTCAATATT TGATAAGTAG AAANTATGAC GATCTTCATG	60
	AACAGCATCT TGTTCTTCGT CAAATTCAAC GTCATCAAAA CGTTTGAAGA ATGTTTCATA	. 120
20	TGCATCAACA GATACTTCAG TACGGTTATT TAATAATGCT TTATGTGCAG CTTGGATCTA	180
	AATGATCTTT GTAGCCTTCA ACTHAATGTC GCACTATAAA ATTCACCAAC TGAACCTGAG	240
	CCATAACTGA ATAAACCGAT TGTTTCCACC AGCTTGTGAA TCTCGATTTT CAAGTGAATG	300
25	ATATT	305
	(2) INFORMATION FOR SEQ ID NO: 3041:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3041:	
	GTTGTGTACC TTAAATGATC AACCGATGCA TAAGAAGAAA GTGAGACGTC ATCAAATTGG	60
40	TGCTGTATTT CAAGATTATA CGTCATCATT ACATCCATTT CAGACTGTTA GAGAAATCTT	120
	ATTTGAAGTG ATGTGTCAAT GTGATGGACA ACCTAAAGAA GTTATGGGAA GTCCAAGCAA	180
	TTACATTGTT GGAAGAAGTC GGTCTATCTA AGGCATACAT GGATAAATAT CCTAATATGT	240
45	TATCAGGTGG AGAGGCGCAA CGTGnTGCAT nTGCGCGTGC AATATGTATT GAACCCnGAA	300
	ATATATTTTG TTTGGAT	317
	(2) INFORMATION FOR SEQ ID NO: 3042:	
50	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3042:	
5	AATCTTCGAA AAATAATGCA ATGCAGATTC CGAAAAAAAC AATATGATAG AAACACCTCA	60
	ATTAAATACA ACGGCTAATG ATACATCTGA TATTAGTGCA AACACAAACA GTGCGAATGT	120
	AGATAGCACA ACAAAACCAA TGTCTACACA AACGAGCAAT ACCACTACAA CAGAGCCAGC	180
10	TTCAACAAAT GAAACACCTC AACCGACGGC nATTAAAAAT CAAGCAACTG CTGCAAAAAT	240
	GCAAGTTCAA ACTGTTCCTC AAGAAGCNAT TCTCAAGTAG GTTATTAAAA CACGGATGGT	300
	GCTAATAGCT THGCAACAAC GTGGGCTTTA AAATTCTCCA ACTTTAGTTT T	351
15	(2) INFORMATION FOR SEQ ID NO: 3043:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3043:	
25	ACGNECTTAE TGGNTACTTG GTTGATAAGT GTTAATECAA ATGAEGTEET GETAEGTACA	60
	GCTTTACGAA TATTTAATGC ACGTGTGATA TTTTGAGAAA ATACACCGCC TGGCTAAACC	120
30	ATACTCAGAA TCATTAGCTA TATCAATTGC TTCTTGATCG TCCTTCACTT TAATCACTGT	180
••	TAACACTGGT CCAAATATTT CTTCTTGTGC TAATTTGTGA TGATTGTCTG GCACnCAATT	240
	AATGTCGGCT CAAAGAAGAA CCCTTTATCT AATCCATTTT CAGTTAAGCG ATGACCGCCT	300
35	GCTAAAATTT GTGCATCCG	319
	(2) INFORMATION FOR SEQ ID NO: 3044:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3044:	
	GTCATATAAT CTAACATTTG TGTTATCTGT TAATTAACTG GnTTTTACCT TAATTTGTTA	60
50	CATTGHTCTG TATTAAATCT TTTTGTAACC ATTGGTTACT TTTTCAGGTG GAATTTCAAC	120
	ACCCATGTCA CCACGTGnCA ACCATTAAAC CATCAGACAC TTCAAGAATT TCCGCAATAT	180

	AAATTCACGA ATTTCTAAAA CATCACTAGG TACGACGTAC GAAACTTGCT GCAATGAAGT	300
	CAACATTTTC TTTAATACCG AAACGGATAT CTTCAGCATC TT	342
5	(2) INFORMATION FOR SEQ ID NO: 3045:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3045:	
	TAATATCATG TTGTGCTTTT AGTGCTTCGG CAATTTGTTT TGTACTTACT GACCCAAACA	60
	ATTTACCACC TTCACCAGTT TTTGCTGATA CTTCAACTTC AATGTTTGAT AACGTTTCTT	120
20	TTAATGCTTT ACATCTTCAA TTTCTTGTTG GCGTTCTTGT TTTGCACGTT TTTTCTGTAA	180
	CTCTAATTGT TTAAGGTTAC CTGGTGTTGC TTCTACAGCA TAATTCTTTT TCAATAAGAA	240
	GTTATTTGGC ATAACCTACT GGTACTTCTT TAACTTCACC TTTTTTACCT TTACCTTTAC	300
25	CTTTAACAnC TGTGTAAAAA TTACTTTCAT GCAGnTCACT CCTACTTAAA TGTTCCGTAA	360
	TGCCTGTTGT AATGTGCCAA CGCCnCTCGA CGTGACACCT	400
30	(2) INFORMATION FOR SEQ ID NO: 3046:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(b) TOPOBOGI: Tillear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3046:	
40	AATCACTGTT TCATTACTTG TTCCAAATCT GnATTCAAAC TATTGTTCAA AGATTCTAAT	60
	TCCGCTTTAT TTTTATCTTT AATCGCTTTT GTCATCGCAG CATCTTTAGn CATCGACTTn	120
45	CTGTTGCAAT AGTTTAATTT TAGAACCCGC ATCTTTACTA GCCAATTTCT CTTCATAAGC	180
45	AATTAATGAC TTCGTTAATT GCGAAAGTGT ATCTTTTTGA TTATCATTCG CTTTTGCATC	240
	TTCAAGCTTT CTCACATCTG CATTTGACAG CATTACTTGC ACTATTATCT TCAAGCGATA	300
50	ATTTCT	306
	(2) INFORMATION FOR SEQ ID NO: 3047:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 306 base pairs	

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3047:	
	ATGGATCATA TTAGCACGTA AAAGAAAATT CTGTTCATTA TGAAGAAGTG CCAGANGTTG	60
10	AATTTAAACG CACATATGTA TGTGAAGATA TGTCTAAATG TATTTGTTTA TACAACGCAC	120
	CTGATGAAGA AGCGGTANIC GCGCGCGCAA AGCAGTTGAT ACACCGATTG ATGGCATCGA	180
	AAAACTTTAA TAAGACAACA AGTTGATGAG ATATATGTAT ATAGGTTTGG CATGGATTTC	240
15	GATTGCANTT ATTAGAATAG CTCAATGCTA TAAATGTAAG TAGTTGATAT TGAGGAACTA	300
	ATGAAC	306
	(2) INFORMATION FOR SEQ ID NO: 3048:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
25	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3048:	
30	GACAGGCTAC GAGATATTT AAACAAATTT ACATCAAATC CAGTATTAGG TGTTATTGCA	. 60
	GGTATCGTTG TAACTATTTT AATACAAAGT AGTTCAGGTA CGACATTATC ACAATCGGAC	120
	TGGTAACnCT GGATTTATGA CATTGAAACA AGCCATTGGA GTGATAATGG GTGCTAATAT	180
35	CGGAACANCG GTAACTGCAT TTATTATCGG TATAGATTTA GGCGAATATG CAATGCCAAT	240
	TTTAGCATTA GGTGCATTCT TGAATCTTTT TCTTTAAACG CTCTAAA	287
40	(2) INFORMATION FOR SEQ ID NO: 3049: (i) SEQUENCE CHARACTERISTICS:	
45	(A) LENGTH: 371 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3049:	
50	CATATAAATA GCGnTACATC GCGCCATTCT TGATCTGnAC ATATCTTTCT TAGGTCCAAC	60
	CGTGAATGAT TACGTCCATG ATAACGTACA AACGCAATTT CATTTGTGAT TCGATTGACT	120
	AAAGGTACAC TGCCATCTTT CACTTGTGGT TCATCAACTA CTGCATGAAT GATTTGATGT	180

	AATTCTACAC ACATTGGAAA GCTTGTAATG CTGTCTTACA TACAAATATA TTGATATTTG	300
	TGCATGCAGT CAACCAGGCG GAAATGACCA TACCATGCTA ATTTTCTGGT ANGAAGGCCT	360
5	ACATATCTAA A	371
	(2) INFORMATION FOR SEQ ID NO: 3050:	
10	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
15		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3050:	
*	CGCCAAATAA AGATAATACA CGTATTGGTG AAGATATAAC TGTAACTGCA CATATCTTAA	60
20	TTGATGGCGA AACAACGCCG ATTACGAAAA CAGCAACATA TAAAGTAGTA AGAACTGTAC	120
	CGAAACATGT CTTTGAAACA GCCAGAGGTG TTTTATACCC AGGTGTTTCA GATATGTATG	180
	ATGCGAAACA NTATGTTAGG CCAGTAAATA ATTCTTGTCG ACANATGCGC AACATTGAAT	240
25	TTCCAATTTG TTGGANCATA TGGGCTAACA AGGTGTTTAG GCATATCTAC TCGTCTTATT	300
	GGGTGCATAT GTAATGGCAA GCA	323
30	(2) INFORMATION FOR SEQ ID NO: 3051:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
35	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3051:	
40	CCGNACCAAT CGGTTTACAG TTCATTGGTA AACCATTCGC ATGAAAAAAC GTTATATCGT	60
	GTCGCTTATC AATATGAAAC ACAATACAAT TTACATGACG TTTATGAAAA ATTATAAGGA	120
	GTGGAAATCA TGCATTTTGA AACAGTTATA GACTTGnGTT CACGTAGAGT TAAAAACGGA	180
45	CTCAAAAATG TTTCTCCATC ACCAGCGCAT TTmGAGCAGA ACCTAACTCA AATACGAATG	240
	GTATCGCTTA GCATATCCAG TGCTTACCAG TTGTTAATAA GCGTGCGTAG ACGGGCATGC	300
50	GTGCTGCAAT GCCTAAATAG GAACG	325
50	(2) INFORMATION FOR SEQ ID NO: 3052:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs	

	<pre>(C) STRANDEDNESS: double {D} TOPOLOGY: linear</pre>	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3052:	
	CTTTTAATCG CTTGAAAACT ATAGGTAAGA CAATACAAGT AGCTACAAAG CCATATATTA	60
	CTGTTAATTG ACCTATGAAA AAATATCCGC TAACGGGTGC CGTCAATCCT GCGATAGCAA	_
10	TACCAATAAA AAGTACAGTC CACGAAGGAT AAACATTTTC AAGTGAAAAA TCTTTTAAAT	120
		180
	ATTTTATTGA AAAAATAATC ATATGCGTCA TAATTCCCAC AAGGCATAAA ATCCAAATAG	240
15	GCGTATTAAG CTATTGTAAA GTTTGTTACT AAAAAATGTT TTAAATAGTG TnCTAAAAAG	300
	CCGGCATGAA AATGTGTGAC CTGATGAACT GAGGCTGTTA TTGTCTTCAC TTATTAAATT	360
20	TGTCTAGTCT AAAGGTGATC CAATCAGAAG CAAGTCCGCA	400
20	(2) INFORMATION FOR SEQ ID NO: 3053:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 367 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3053:	
	AATGAGATGC GAAGGATGAT CAGAGAAAAA GTCTCTCAAT CAGGTGTGAA AGTCAGATGG	60
	TTATCACAAC TTTGGCGTAC GTTTTCGATA TAATGCACTA GGTGATTTAA ATACGAGCAA	120
35	TATTGTTTCT TCAAAAGAAA GTTTCGGTAT TACTGAAGTG TGAAATCTGT CTCTATGCAT	180
,	GCCGGATCGA CATTAGCATT ACTAATCCAG AGAAAGCAAA AGGTATTGTG TATACACCAG	240
	AACATTGCCA GCGAAAAGTA AATGGTCACA GCTGTAGAnC AAGGTATTTA TAATGGGGGC	300
40	GGTAAAGCAG AAGGCCCCTA TGTAGCATTT CNTAAAGNTG GGAAAAGGTA AAGCAGCATT	360
	ATCGGTG	367
	(2) INFORMATION FOR SEQ ID NO: 3054:	
<i>45 50</i>	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3054:	

	PROGRESSOR AMERICANES ACCORDED TO THE TOTAL CONTROL OF THE TOTAL CONTROL OT THE TOTAL CONTROL	
	AAGGAAAGGC ATTAGGAAAA AGCCACAGGG AAAACATTTC AGCAGCAGGT TCTTGGAATC	180
5	ATATATTCAA GTTCAACAAG CGAATGCTGT TAAATTGCCC TTTGGATGAC AATCAATTCG	240
	ATATCGTTTT AAATGAAGCA ATGTTAACAA TGTTACCCAT CGCCATAAAG GAAAAAGCAT	300
	TACGCGAGTA CTACCGAGTC TAAAGCCTGG GGGTATCTGT TAACACATGA TATTGTCATC	360
10	GTTAATGAAT CACATGCCAC AC	382
	(2) INFORMATION FOR SEQ ID NO: 3055:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3055:	
	CTTAAGATTA GGTGTGCTTA ATTAGTACTG GCTGGGAACG ATAAAGGCAT ATTGCAAAAA	60
25	ATAGAACATC CATATCCATT AAATGTATTT ACGCTAAATA TTGnCGACTT ATATTTTTAG	120
	ACATAGAGAA GAGACAAGAC AATTTTTAAC GATGCAACGA CAGTTAGGCT GAGGCAGTTA	180
30	AAACAAATAT TTGATACACA TGTTGnCAGA TAAAAGTCAG TGTTCCCATC AAATGCNAAT	240
	TTTGTACTAC TAAAAGCTCA GCAGCGCAAC AATTAGGACA ATACGTATAT GAACAAGGGA	300
	TTTAAACCTC GCTTTT	316
35	(2) INFORMATION FOR SEQ ID NO: 3056:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 380 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3056:	
45	GTTCACCATC CGTTTATTTC AATGAAAAAA TCGACAAAAA TGGTCGTGAA AACTATGATG	60
	CAACAATTAT TCCAAACCGT GGTGCATGGT TAGAATATGA AACAGATGCT AAAGATGTTG	120
50	TATACGTACG TATTGATAGA ACACGTAAAC TACCATTAAC AGTATTGTTA CGTGCATTAG	180
50	GGTTCTCAAG CGACCAAGAA ATTGTTGACC TTTAAGTGAC AATGAATATT ACGTATACTT	240
	AGAGAAAGAC nGCACTGAAA ACACTGACCA GCGTATTAGA ATCATGACGT TACGTCCAGT	300

	CTTAGCAGCG TGGGnCGTAT	380
	(2) INFORMATION FOR SEQ ID NO: 3057:	
5	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 327 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3057:	
15	TATGTGATGG ACTTAAAAAA ACGAACTCAA TTAATACAAT GGGCTCAAGA AAAAGAAGAA	60
	CGATTTATTA TAGAAGATGA TTATGATTCC GAGTTTAGAT ATTTCGGCAA ACCCATTCCA	120
	GCAATTCAAG GTCTATATTC AAGAGGAGAA AAAGTGATTT ATATCAGTAC ATTTTGCAAA	180
20	GTCTATTTTT CCTAGCTGTT CGAGTTGGCA TATATGGTGT TACCCTATTC TATATGGAA	240
	AAAATATCAT TTCTnCAAAA TCCACCATTG GAAGGGCAAC ACTGGTAACC TGTTTCATAT	300
	GGCAAAACCT TATTGGCAAC GTTTnAT	327
25	(2) INFORMATION FOR SEQ ID NO: 3058:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3058:	
	CGAAAAAGGA GAATGAAACA TGAGGTAATA CAACATTACA TGCAACAACA ATTTATGCGT	60
	GTAAGACATA ATGGAAAGCA GCTATGGCTG GAGATGGGCA AGTAACGCTT GGTTCAACAA	120
40	GTCATCATGA AACAAACGGC AAGAAAAGTG CGACGTTTAT ATGAAGTAAA TGTTAGCTGG	180
	TITCGCAGTA TGTAGCAGAT GCGTTTACTT ATTTGAAAAA TTCGAAACAA NATTACAACA	240
45	GTTTAGTGGT AACTTAGAAA GAGCNGCTGT TGAATTGGCA CAAG	284
43	(2) INFORMATION FOR SEQ ID NO: 3059:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AAAGAAGCGG ATGAAGAGCT TTGCATTGAG CTCGACCCAG GTATGGCTTT TGGAACAGGT	60
	GATCATCCGA CTACAAGTAT GTGTTTGAAG GCAATAGAAA CATATGTATT GCCACAGCAT	120
5	TCAGTAATTG ATGTTGGTAC TGGCTCAGGT ATATTAAGTA TTGCAAGTCA TCTAATCGGT	180
	GTAAAACGTA TTAAAGCGTT GGATATTGAT GRAATGGCAG TGAGTGTAGC TAGAAGARAA	240
	CTTCAGAAGA NATCATTGTG AACGTTGAAT TGGAAGCTGT TCCAGGTTAA CATATTGGAA	300
10	AG	302
	(2) INFORMATION FOR SEQ ID NO: 3060:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3060:	
	TTTTTAAnGA CACATTGNGC TGTGTTTAAT GCATGAAAGG AACCACTGAC ATGCATNAAA	60
25	TOTTTGAATG GTTCTTTATC AATTCCTTCC CCCCTCTCAT GTTTTGTATC TTTAAATCAA	120
	TATAATTCAA AAAGGGTCGA GGATATGAAA TCACATCTTC GACCCTTTAT TTACTATTTT	180
	AATTCAGCCA CACGCAAACG GTTATTTGCT CTCTCTAAAG CTCTTTCGGC TCTATGGAAT	240
30	ATCAGTATTG TCGTCAATCA TTTTCCAAGT GAGACTCTGC TCTTGCTTTG GCTAATTTAG	300
	CTCTTTCAAC ATCAATTTCT CTTGCAGTTC	330
35	(2) INFORMATION FOR SEQ ID NO: 3061:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs	
40	(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
40		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3061:	
45	CGATCAATCA ATATAATTCA CGGCGCAAAA CGTTTATTTA GCATGTTCTT GCAGACTCTG	60
	AAACTGGCAT TAAACCTTCC ATTAAGATTT TTACCATTCT AGGCATTAAT ACCATTACTG	120
	CAGCCATTGA CATTCCTAAA TTAATGATGT CTCCAGGTTT GTAACCTGCT AACACCCAA	180
50	TACCTAAMCC TAAAATTAAG CCGACAAATA TAGACTCTCC AAATGCGCCA AAACGTTTTT	240
	GAATTGNTTC AGGATCAGCA TCTAACTNAT TCAGACCGGG TACTTTTTGT AACAATTTAA	300

(2) INFORMATION FOR SEQ ID NO: 3062:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3062:	
	TATAAAATCA ATGATTTTAA CAAATAAAAA CGTACCGCAA ATACTGCAAA TAACAGCAAA	60
45	TACTAGTTTT AATAAAATAT GACCGGTTGG AAAGAACAAT AAAGCAATTA AAATACCTAG	120
15	TTTAGCCCAT TCCATCGTTC CAGCTGTAGT CGGACTAACA AACTTATTTT GCATCATTTG	180
	TTGGCATTAT CAAGCCTGCT GAAAGCCAAC GAACTTCCAG CAATTAAAAT ACTCATCGTC	240
20	CTTGGTATTC GGGCTTGGAG AATAAAATGA TTCCGCTGGT GACTCAGTTG AAATGTAGTG	300
	AAATCTTTGA ATTGGATAGT TnCACTGCAC ACCTGATGGN ANCAACGGAA	350
	(2) INFORMATION FOR SEQ ID NO: 3063:	
25	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
30		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3063:	
	TTAGTGATTT TAACGTGTAT CGGTAATTTT AAATAAATGT TTAATGCTTT TGAAAATACA	60
35	GTTCTAACCG AAGACGTCGG GTACACTGAA TCACCGGAAA CGCCAAGGTC TTTTATTAAA	120
	CCTTGTTCAC TATATTGCAT ATACTGTGGA TGCTGTCGCA ACACATTGAT TTGATAAGGA	130
40	TGTGTTGGTA ATAAAATAAA ATCTTTGGGT ATCTCTGATA TATCTATGTC TGCTAATTGG	240
40	ATACHACACT TTCTCAACCT GGATCCTTCC TTTTACCTHC CACCATAGCC GCGTGGARCA	300
	GGAAACCATC CTGGGATGCA CCAGCCAAAA TAAATGCCAA TT	342
45	(2) INFORMATION FOR SEQ ID NO: 3064:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
50	(n) Property linear	

	GTCCAGCTCC AGAACCAAAC TTAACAGTAT TATGGTCAGT ACGTTTACCT GACAACTTCA	6
	AAACATACTG TGCAAAAATG AGTATTAAAA CAAGTTCTAT CCAATATGAA AATGATGACA	120
5	TTATGCGTGA AAGCTATGGC GATGACTATG GTATCGCnTG TTGTGTATCA GCGATGACAA	180
	TTGGTAAACA AATGCAATTC TTCGGTGCAC GTGCGAACTT AGChAAAACC TTACTTTACG	240
	CTATCCATGG TGGTAAGATT GAAAATCTGG TGCACAAGTG GGCCCAACCT CCGAGGGATT	300
10	nACCAGCGGA GTAATT	316
	(2) INFORMATION FOR SEQ ID NO: 3065:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3065:	
	TGATTGCGTG GATCAGCAAC TTCAAAGATT AACAAATAAT ATTACTTGGG CAGATAACCG	60
25	CGCTGCAAAA TATGCAACAG TAATAAATGA AGTGCATGAT GGGCAATGCG ATTTACCAGC	120
	GRACAAGCAC ARCGGTTTCA TCCTATGTCG CCATTAGCGA AGATTTTTGG ATGAAACATG	180
	ATGGCCAGAT GTATTTCCAC GTACTGCTAA GTTTGCAGAT ATTAAAACAT ACATTTCTAT	240
30	CATTATTGAT ACATATACA TTGATTATTC CATGGCTTCC GCNACAGGGA TGTTAATTAG	300
	AACATAGATT GGAGTGAGGC AT	322
35	(2) INFORMATION FOR SEQ ID NO: 3066:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 373 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3066:	
15	TATAAAGAAT CCTGCCTTAC CTAAGAACAC TTGTCTTGTC	60
	CTTATGTTTA TTATCAACCG TTAATAAACT TACCATCAAG AGTGCACCTA CCCATACTGA	120
	CAGTGCAGTA TAGAATGGTG TCATACCTGA ACCATAATCC TTAACTGGGA AAACATCAAC	180
50	AGTCTTCTTA TTAATAGATT GCAATAATAC CCGCTGCTTT TTCAAATCAT TCTAnTGGTC	240
	CATTAATTCT CCACCCATCA TCTTCTCAAT TCTTCAAATT TATTCCCTTT TCAACTTTTCA	300

	CACGCTGACA TAC	373
	(2) INFORMATION FOR SEQ ID NO: 3067:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3067:	
15	TTCAGAGTTC GGAACATAAG GCGCTACAAT GTTGTGTTGC CAGTAGTTGA CTGAATATGC	60
	GTTTGTAACA AGCTTTTTTC GATTCTAGTC AACAGTAATT AAATTTATGA TATGGGCAAT	120
	ACTTTGTAAT ACTAATATTA AATGGCGACT TTATTTCACT ATGTTATAAG AGTGCCATTT	180
20	GTTGATAAAG GNATACTAAA GGGTATCGTT TGGAATTTTA GTAACTAGAT ATGTTCGGGT	240
	ATAGACCGNA TTGTGGATAC GTAAATTTAA TGCNATGAAT TTTAAAATGA AAACATGACA	300
25	TTAAATGAAT C	311
25	(2) INFORMATION FOR SEQ ID NO: 3068:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3068:	
	TATGATTATC TAGTAAGTAA ATTGCTGACG CGCCGAATAC CGCAAAGAAT ATAAAGCAAA	60
	CTAACGCCGG GACAAAAGT ACACCTAGGA ATAAATTCTT TAATCGTACG TCCTTTTGAC	120
40	ACACGTGCAA TAANATACCT ACAAATGGGT GCCCAGGNTA TCCACCATGG CCCAGTAAAA	180
	GATTGTCCAA TTTTGTAACC ATTGGGAATT TTTGACCACC TGTCGGAATG CGTAAACTCA	240
45	TACTTAAAGA AATTTGCATT ATAATTACCT AGACC	275
70	(2) INFORMATION FOR SEQ ID NO: 3069:	
50	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

	AAATGGGTTC TGTGACATTA ACGTCTACAA AAGATGGTTC AGAAGAAACA CACGAGGCTG	60
	ATGGTGTATT CATCTATATT GGTATGAAAC CATTAACAGC GCCATTTAAA GACTTAGGTA	120
5	TTACAAATGA TGTTGGTTAT ATTGTAACAA AAGATGATAT GACAACATCA GTACCAGGTA	180
	TTTTTGCAGC AGGAGATGTT CGCGACAAAG GTTTACGCCA AATTGTCACT GCTACTGGCG	240
	ATGGTAGTAT TGCAGCNCAA GTGCAGGGAA TATATTGACA TTAACGATCA GCCTAANTCC	300
10	GAGCHGATTA GATGTGAGCG G	321
	(2) INFORMATION FOR SEQ ID NO: 3070:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3070:	
	GTTTGACCTG CATATTTGAC AGTCATAACC TTTGTATCAC CATTATATTA ATATCAAAAT	60
25	CTTGGAACGT GTTATTTGAG nTGACATTTA ACTTCGCAGC ATTATCAGCT GTTGAACTTG	120
	ATGTATACGT TGCGCAACCC ATAACTATCT GTGTTACAAT GCACCAAACG CACCTCCACC	180
30	AGCTACATTA GATGGGCAGC TTCGCCTTGC AGCTGATTGG TTTAGATGAT TGTGATACGA	240
	TCCAATTTGA AGCCAAATnG TACTTAAGCA CAATCCTACT GCGGACCGTT TAACCCTGTT	300
	TCACCTATAC ACTGNTGAAA GGCAAACCGT ACCACTCACC ATTTCCATGC CTTCCATATT	360
35	TGGTTACCAA ATTTACTTTT CCCnGAAAAA TGAAACTCTT	400
	(2) INFORMATION FOR SEQ ID NO: 3071:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 266 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3071:	
	TGGCCATTTG TCATTGCATT TTTACCGTGG GTGTTGATTA TTATTCCTTA CTTACTATTT	60
50	AAATCGGATA CACTAAATAT TATTCATACG GGTGATAATA TTGCACGAGG TCTAGGTGTA	120
	AGGTTAAnCA GAGAACGTTT AATATTATTC TTTATCGCAG TGATGTTATC ATCTGCTGCT	180
	GTAGCATAGC AGGTTCAATT TCGTTTATCG GATTAATGGG TCCGCATATT GCCAnACGTA	240

(2) INFORMATION FOR SEQ ID NO: 3072:

5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3072:	
	GACTCCCTGC AGGTCGACGT CTAGAGGATC CCCCCACAGC AATTCACTTA TACATGTAAC	6
15	AGTGTGAAAT AATAACGTCA CAACGGCATA ATACACATTG CAACGTCCCA ACAACATATC	12
	ATAGAATCGT AACGGCATGA CATCAACACC AAACCTGGGC TATAACACCA TAACAGCGCA	18
	ACGCCACATC ATAGGCACTA CATCAAGTCG CATCGTAGCA CCAGCACATC AAAGTAACAT	24
20	GGGCATCAAC ATCAAACCGG TCTATAACAC CATAACACCG GCAATGCCAC ATTCATAGGC	30
	ACTACATCAA GTCGGCATC	31:
25	(2) INFORMATION FOR SEQ ID NO: 3073: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
30	(D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3073:	
35	ATATACGCTT ATCAGCTGGA GCTCAATAGA TGGAGGATGA TTATGGGGCT ACCGGTTCTG	6(
00	TCTATAGCAC TGGTCTATCA GCTATGTGGA TTACAATCGG TTTAACATTA GGTGCTTATA	120
	TAAATTACTT TGTTGTTGCT CCTAGACTTC GTGTTTATAC CGAATTAGCT GGAGATGCAA	180
40	TTACATTACC AGATTTCTTT AAAAATCGTT TAAACGATAA AAATAATGTG TTAAAGATTA	240
	TTTCTGGATT GATTATCGTA GTATTCTTTA CATTATATAC nn	282
	(2) INFORMATION FOR SEQ ID NO: 3074:	
<i>45</i> <i>50</i>	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 396 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

2432

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3074:

	AATCGARAAA TCATGGATGT ACTTGAATCA AATGCAAACA GCGAAGTGTn TTGAATTGCA	120
	TGGTAGCGTT ATAGACGAGC CAGTAGAAAT TCAATCAATT AAAGTATATG TTCCTAACGA	180
5	TGATGAAGGT CGTACGACAA CTGTAATTGG TAATGCTTTC CCTGACTCAG AAGTTAAATG	240
	CATTACACCA GCAGATATCA TKGCTTCAAT GAGTTACTTC TTTAACTTAT TAAGCGGLAT	300
	TGGGLATACA GATGATATTG GACCATTAGG TAACCGTCGT TTACGTTCTG tAGGKGGAAT	360
10	TACTACMAAA CCAATTCCGT ATCGGTTTAT CCAAGA	396
	(2) INFORMATION FOR SEQ ID NO: 3075:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 376 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
20		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3075:	
	ACCTACATTT GCAGTTGTCG GTGTATAACC GGCTGGTGTT GAAAACTCTA CACTATAAGT	60
25	TCCATTGCTT AAACCAGTGA ACTGATATTT ACCATTTTCA TCTGTTGTCG TACGATCTAA	120
	TTCTTTACCG TTACTATCTT TAAGAATGAC ATAAACACCT TTAATCCCTT TTTCATTGGC	180
30	ATCTTGTTTA CCATCTTTAT TTGTATCTCC CATACATAGT CACCTAGATT ATATTCTTT	240
	GGGCGCCATA GCAGTTGATG AGCATTCACA TTGAAAAACT ATTGACCACT ATATTAGTTT	300
	GCAGTGCTAA GNATAACATT TCCATACGTG ACATACTGAT AGACTGTGAG TGATGTATGC	360
<i>35</i>	GCTGnTGCTC ATAACG	376
	(2) INFORMATION FOR SEQ ID NO: 3076:	
40	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
45		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3076:	
	TTACATCACC AATTAGACGT TATCCTGATT TAACAGTTCA TCGTTTAATC CGTAAGTATT	60
50	TAATTGAGAA ATCAATGGAT AACAAAGAAG TGAAGCGTTG GGAAGACAAA TTGCCTGAGT	120
	TAGCTGAACA TACTTCTAAA CGTGAACGTC GTGCTATTGA GGCAGAACGT GATACTGATG	180
	AATTGAAAAA AGCAGAATAT ATGATTCAAC ATATTGGTGA TGAATTTGAA GGTAATGTCA	240

	AANGCNGNGA TATACGTTTG AGGCGCAATG C	331
	(2) INFORMATION FOR SEQ ID NO: 3077:	
5	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
10	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3077:	
15	AATCATATGC ATCGATTTCC AGCAACAGCA ACCATTCATC CTATGTCCCA TTAGCAAATT	60
	TTTTGGATGA AACATGAATG GCAAGATGTA TTTCAACGTA CTGCTAATTT GCAGATATTA	120
	AAACATACnT TTCTATCATT ATTGATACAT ATATCATGAT TATTCATGGC TTCCGCAACA	180
20	GGATGTTTAT TTAGAAACAT TAGATTGGGA TGTTGAGGCA TAGAACTGCT GGGTATTTCC	240
	AAGGAAATGT TGCCGGAATT ATTCCAACAA CTATTGATGT AAGTATGAAA GAACGTATGC	300
	AACATAATGG GCTAATAAAG TACACCGTnT GTTAATGGTG CnATG	345
25	(2) INFORMATION FOR SEQ ID NO: 3078:	
30	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
35	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3078:	
	GATTATCAAG CGATTGATCA AGTATCATCA TTGTTGAAAG AAAAATATGG CATTGCACAT	60
	TCAACGTTGC AAATTGAAAA CTTGCAATTG AATCCATTAG ATGAGCCATA CTTCGACAAA	120
40	TTAACATAAA TAAAACATTG TAGCGCCTAA AACATTAATC TATGTCATAG GCGCACGTTT	180
	CGTTTTATAC TTATGTTGCA TCATTTAAAT GATTTTCGTC AATTTCTTTG ATGCTATCTA	240
45	CATCTAACAC GAGGTTAACT TGCGTTGATT TTGATAAAGT GATCATAGCT TTTAGTACTT	300
43	GAGGATTTTT ATTGTTGCTG TTACGAATGT GGTCATGTTT AATGCGGGAC AGTAATTTAA	360
	GTTGTTTTTT TACAATTGAG AGTGTGATAT TTCGATTCGG	400
50	(2) INFORMATION FOR SEQ ID NO: 3079:	
55	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 319 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3079:	
5	AAACGTTTAA TATACACTTT TACACGTCGC CTTCATTGAA GCGAATTGCC ATAACCTTCA	60
	CATTATATAT AGTTCTTTCC ATATAAATGT CCAAATTTTT AGAACAACGC AATA±ATAAC	120
	CATCCACCTA ACTTATCAAA AATTTAAGTG GATGGTTTTT CATTTTCATT TATATTTATA	180
10	TTAGTGTTAA TCCAATCATA GATTTATCTA TATGCACTGC TCTATACATT TCCTCATTTA	240
	ATTTGCYTTA CTTTCATTTA TATCATTATC AGAACACTTG GCGTGTCATC GNTATTATTT	300
	CGCATCTTTG ANACGTTTA	319
15	(2) INFORMATION FOR SEQ ID NO: 3080:	
20	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3080:	
	TCAAATGCAT CTAGGnCACA TTATTCTATT TGGGCATTCT TAGTGCTGTT CTTATTTGCG	60
	GCTTTAACGT CATCTATTTC TTTATTAGAA TTAAATGTTT CTAACTTCAC GAAGAATGAC	120
30	AATACAAAAC GTAAAAAAGT CGCAGTGATC GGTAGTATTT TAGTATTTAT CATTAGTATT	180
	CCAGCAACCT TATCHTTTGG TATCCTAAAA GATGTAAGAT CGGTGCGGGA ACGATTTTTG	240
25	ATAATAAGGA TTCCACCGTT CGAATGTAAT GAAGCCATAA GCGGG	285
35	(2) INFORMATION FOR SEQ ID NO: 3081:	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 400 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3081:	
	ATCATAGCGT TTCTCCTAAA AATTACGATT AATCAAAGTA TGCCATTATT TAACTTTAGT	60
	TTCTTCAGAA TTATTTGCCC CATTATCATG TTTTTCTTCT TTATTAACAG CATTTTTATC	120
50	ATTTTTAACA AGATACAATT TACCAATTAA TGGGCGGTGT GCGTGCTGGT ATGGGTTATA	180
	CTGGTTCACA CGATTTAAGA GAATTACGCG AAGAAGCACA ATTTACACGT ATGGGTCCTG	240

	CATTCTAATT AAGATAAAGG AGAACGACAA ATATGGGAAA TGGCAAAGGA CCAAGAGTTA	360
	ATCCTTGTCT TAGGACTTTG GTAGGCCATT ACACCCATTA	400
5	(2) INFORMATION FOR SEQ ID NO: 3082:	
10	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
15	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3082:	
	TGAATTTGCT CCAAATAAAA ATACAATTGC CATTAAAATC ACCAGATATT ACAAGTGGCA	60
	ACATGTTAGA AACACCGTTC ATTAAGTGTT TATAGAATGC TTTACCTGGG CTTATTTCTT	120
20	GACTGTCATT TGAGTTACCT GGCAACAAAA GGTTTACGAC TTGTATCTAA TGAATACCAT	180
	CTGCTACTGG TRCTTCTACG ACATTTTTAC CATCGARGCG GTCCGTCTCA ACATGTACAT	240
	CAGCAGCA	248
25	(2) INFORMATION FOR SEQ ID NO: 3083:	
30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 368 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
<i>35</i>	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3083:	
	TACTAAAGGT TTAAATCAAA AATGGCTAGG TATCGTATTT GCGATTTTAA TTACAATTAC	60
	ATTTGCATTT GTATTTAACA CAGTGCAATC TAATACAATT GCGGAGTCGT TAAATACGCA	120
40	ATATAATATT AGTCCAGTAA TCACAGGTAT TATTTTAGCA ATCGTAACAG CTATTATTAT	180
	ATTTGGTGGT GTACGTAGTA TTGCTACGTA TCCTCGTTAA TGTACCGATA TGGCTATCAT	240
	TACATGGTAT GGTTTAGTAA TAATGCTATT AATTTAGACC AATTGTCCnA TGATAGGACG	300
45	ATATAAAAGG CATTGGNACG ACAAGNACTG GTGCGCTGAG GGCTCGGTCT CCAGGACAAC	360
	GGGGTATC	368
50	(2) INFORMATION FOR SEQ ID NO: 3084:	
συ	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3084:	
5	TTGGACTTTA TAAAGTTACT AAGTTGTAGA TTATCCTGGT AAAGAAGATA TTGCGGTTGT	60
	ACAAGTTGAA GAAAAATCAA CACAACCAAA AGGTAGAAAA TTCAAAGATT TCACTAGTAA	120
	ATTTAATATA GCATCAGAAG CTAAAGAAAA TGAACCTATA TCAGTCATTG GTTATCCAAA	180
10	TCCTAATGGA ATAACTACAA ATGTATGAAT CAACTGGTAA AGTATTATCA GTGAATGGGA	240
	TATAGTGNAT CGGATN	256
	(2) INFORMATION FOR SEQ ID NO: 3085:	
15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3085:	
25	ATATGCATAT GCTTCTTTAG GTGAACGAAT ATCTGGTTCA GATACGATTT CAATTAGCGG	60
	TGTACCTTGA CGGTTCAAGT CAACTAATGA ATACTCCACC TTTATGTGTT GACTTACCAG	120
	CATCTTCTTC CATGTGAAGA CGAGTAATAC CGATTCGnTT TGTTTCACCG TCGACTTCGA	180
3 0	TATCGATATA TCCCATTTCA CCAATTGGGT TGATCAATTG AGAATTTGAT AGCTTTGGGA	240
	TATCGGGATA GAATAGTCTA CGGTCAACTA GATCNGGTGC GANTCCATAT TTAGTGCCAT	300
	GCAGCACGCA T	311
35	(2) INFORMATION FOR SEQ ID NO. 3086.	
40	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 271 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
45	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3086:	
	ATGTAAATGA TCATCCTTCA TAATAACAAC GATTACTGAT CTTGATCATG ATTTTGAACA	60
	ATAACAACTG CTTTATTAAT ACCTTGTATA CGCTCGAGnC ATGCCAACCT CTGACAACTC	120
5 <i>0</i>	AATCCTAAAC CCTCGAATCT TAACTTGTTT GTCCTTTCGA TATAAATAAT CTATGTTGCC	180
	ATCGGGTAAC AAACGAACGA TATCACCACT TCCTATACAT CAGCTGATTT ATATTTGAAT	240

(2) INFORMATION FOR SEQ ID NO: 3087:

55

5	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3087:	
	GTAAAGATTT CAATTCATCA TCTTTAAATA AACTTAATGG TAATTnGTTA TACCNAATAA	60
	AGCCTTCTGG ACACTTCCTT TAGACCGACG ACCGTCTTAG CTAATGTCGA TTTCCCTGAC	120
15	CCTGATTCAC CGACAATGCC TAATGTTTCG CCTTTTCTAA TAGCCAAGTT AATATCATAA	180
	CTGCTCGGTA TGGGCTGCCC CTCGGTGATG TGTAATCCAC GCTCCACGCG ATCGATTTTA	240
20	ATAAAATATC ATGGTT	256
	(2) INFORMATION FOR SEQ ID NO: 3088:	
25	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3088:	
	AAGGTTATTT GAATGATCAA GGTATCCACA AAAGAGGTGC TGAAATAGAT CGACTCGTTA	60
35	AAGGATGTAC AGGTGTTAAA CGTACAACTG GACAGCATCC AGGGGGTATT ATTGTAGTAC	120
	CTGATTACAT GGATATTTAT GATTTTACGC CGATACAATA TCCTGCCGAT GATCAAAATT	180
	CAGCATGGAT GACGACACAT TTGATTTCCC TTCCTnTCAT GATATGTATT AAAACCTGAT	240
40	AAACNTGGAC ACGTGATCCC ACCATGATCG ATGCCTCCAG ATTATCAGGA ATGATCCAAA	300
	ACCATACCTG AGATGTAAGA GTATCAGTAT TAGACnC	337
	(2) INFORMATION FOR SEQ ID NO: 3089:	
45	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 303 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
50		
	(vi) SEQUENCE DESCRIPTION, SEQ ID NO. 2000.	